United Academy



Entrance Model Questions-2082

Science · Management · Humanities · Law

"Genius is one percent inspiration and ninety-nine percent perspiration." - Thomas Alva Edison





Under the management of UAG



d emy





- **Q** Kumaripati, Lalitpur
- () +977-01-5537939, 5538938, 5422825

United College

- info@united.edu.np
- https://academy.united.edu.np

Preface

United Academy (UA) has always remained deeply committed to the academic growth, learning potential, and holistic development of thousands of students. UA firmly believes that education is not merely about delivering content—it is about nurturing curious minds, guiding ambitions, and shaping responsible, confident individuals ready to face their challenges in the future.

In this regard, UA is pleased to present this Entrance Model

Questions (2025), designed as an efficient tool to succeed for those students who are preparing for the Entrance Examination(s) for Grade XI at UA. UA understands how important this phase is in a student's life, as it lays the foundation for further academic and professional pursuits—whether in Science, Management, Humanities, Law, or any other discipline.

The primary objectives of this booklet are threefold:

- 1. To **familiarize students with the format and pattern of entrance questions** so that they can approach the Entrance Examination with confidence.
- 2. To **offer a wide range of practice sets** that help sharpen critical thinking, time management, and subject-wise preparations.
- 3. To bridge the gap between current learning and future academic goals, especially for those aspiring to pursue competitive fields like Medicine, Engineering, Business, and Social or Human Sciences.

Thus, UA extends its heartfelt best wishes to all its prospective students. May this booklet be a stepping stone towards a bright academic future and a successful career path. Your dreams are valid, and with sincere efforts and the right guidance, one will surely achieve them.

Happy Reading! Best Wishes!

United Academy Family Kumaripati, Lalitpur

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(Management/Humanities/Law Faculty)

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Instruction for the Entrance Examination

Instructions for Students

1. All the questions are objective.

- Read the questions carefully, do the calculations on the scrap paper and then indicate the correct answer on a separate answer sheet provided. Use cross mark (X) in the provided box □ for correct answers in the answer sheet.
- 3. There should not be any rough marks in the answer sheet.
- 4. Students are instructed to submit both the papers (question paper and answer sheet) after completing the examination.



		r u	II Marks: 100	Pass Marks: 40
Ch ans	oose the best of swer sheet.	option and	cross-mark the rig	ght box available in the
		MATH	EMATICS [25 N	/Iarks]
1.	$y = \sqrt{\frac{x}{1-x}}$	$+\sqrt{\frac{1-x}{x}},$	then y^2 equals	
	(a) $\frac{1}{1-x^2}$		(b) $^{1}/_{1}-x^{2}$	
	(c) $1-2x+x^2/x-x$	2	(d) $1 - x + x^2 / x - x$	x ²
2.	Two dice are th sum of 9 is:	rown simult	aneously. The prob	pability of getting a
	1	3	1	4
	(a) 10	(b) 10	(c) 9	(d) $\overline{9}$
3.	A man sells an profit %?	article at a p	profit of 20% of S.F	P. What is his real
	(a) 16.66%	(b) 25 %	(c) 18 %	(d) 20 %
4.	The cuboidal ta	nk is 20cm	long 10 cm wide &	8 cm high. With
	what minimum	base area ca	in it stand upright?	
_	(a) 200 cm^2	(b) 80 cm^2	(c) 160 cm^2	(d) None
5.	Which of the for $(x) = x^2 + 2x^2 = 0$	ollowing is a	n example of pure (1) $=2$ $+2$	quadratic equation?
	(a) $x^2 + 3x - 9$	= 0	(b) $x^2 + 3x = 0$)
6	(c) $x^2 - 9 = 0$ If m·n - 3.2 the	n what is th	(d) $5X - 9 = 0$ e value of $(4m \pm 5n)$	$1 \cdot (4m - 5n)^2$
0.	(a) 4.9	(b) 9.4	(c) 11.1	(d) 9.1

7.	. What is the compound interest of Rs 1 for 3 years at the rate of				
	10% per annun	n?			
	(a) Rs 13.31	(b) Rs 1.331	(c) Rs 0.331	(d) Rs 0.30	
8.	Which of the fo	ollowing is not th	rue?		
	(a) Diagonals o	of a square area e	equal		
	(b) Diagonals of	of a rectangle are	equal		
	(c) Diagonals c	of a rhombus are	equal		
	(d) Diagonals of	of a square and r	ectangle are equal		
9.	Which of the a	xioms does not v	verify congruency	of any two	
	triangles?				
	(a) R.H.S. axio	m	(b) S.S.S. axiom		
	(c) S.S.A. axic	om	(d) A.A.S. axior	n	
10	Which of the re	elation is true for	r cylinder and con	e of same radius	
	and height?				
	(a) 3 X CSA of	cone = CSA of	cylinder		
	(b) TSA of cyli	inder = CSA of a	cone + Area of ba	se	
	(c) 3 volume of	f cone = volume	of cylinder		
	(d) $\sqrt{7a}$ 3 volu	me of cylinder =	volume of cone		
11	. If $f(x) = x$ and	g(x) = n then $g(x) = n$	of (x) is equal to		
	(a) x	(b) n	(c) $x^{n}[2 - 5 - 3]$	36] (d) x.n	
12	.If $(f-3) x = 2x-3$	3 then f (3) is eq	ual to		
	(a) 2	(b) 3	(c) $6[2 - 5 - 3]$	6] (d) None of	
	these				
13	.Zeros of $p(x) =$	$= x^2 - 1$ are			
	(a) ± 1	(b) ± 2	(c) 0	(d) None of	
	these				
14	What is the det	erminant of an i	dentity matrix?		
	(a) 0	(b) 1	(c) 2	(d) All	
	$\begin{pmatrix} 2x & 4 \end{pmatrix}$				
15	If $\begin{pmatrix} 6 & 3x \end{pmatrix}_i$	s a singular mati	rix then the value	of x is	
15	(a) ()	(h) ?	(c) -?	(d) + 2	
	$ \rightarrow \rightarrow \rightarrow$	 (0) 2 → 	(0) 2	$(\mathbf{u}) \perp \mathbf{Z}$	
16	a+b = a-a = a-b = a-b	b then the relation	tion between \vec{a} and	$d \vec{b}_{is}$	
	(a) parallel	(b) orthogonal	(c) equal	(d) none	
17	If $\sin 8 \theta = \cos \theta$	s 7 θ then the value	ue of θ is		
	(a) 90°	(b) 0^0	(c) 15°	(d) 6^0	

18.If the third	term of a G.S. is	3 then the produ	act of first five terms is
(a) 243	(b) 27	(c) 81	(d) none of these
$\vec{x} = \begin{pmatrix} 3 \\ 4 \end{pmatrix}$	$\vec{y} = \begin{pmatrix} -4 \\ 3 \end{pmatrix}$		\rightarrow \rightarrow
19.lf	and	then angle betwe	een x and y is
(a) 0^{0}	(b) 45°	(c) 90°	(d) none of these
20.If $Q_1 = 20$ a	and $Q_3 = 50$ then	the semi-inter q	uartile range is
(a) 35	(b) 30	(c) 15	(d) none of these
	_	$5, -\frac{5}{2}, 0, \frac{5}{2}$	
21. The 11th te	rm of an A.P.	2 2,.	is
(a) -20	(b) 20	(c) -30	(d) 30
22. The value of	of $tan1^0$. $tan2^0$. ta	n3 ⁰ tan 89	9º is
(a) 0	(b) 1	$(c) \infty$	(d) $\frac{1}{2}$
23. The value of	of 'a' for which 2	2a, (a+10) and (3	a+2) are three
consecutive	e terms of an A.F	P. is:	
(a) 6	(b) -6	(c) -18	(d) 18
24.If A + B +	$C = \pi^c$, $\sin 2A - s$	sin 2B - sin 2C e	quals
(a) 4 cos A	. cos B. sin C	(b) $4 \cos A$.	sin B. cos C
(c) -4 sin A	. cos B. cos C	(d) - 4 cos	A. cos B. sin C
25.For what va	alue of 'k' with ($(k+2) x^2 = 4xy +$	(2k+5) y ² represents

two straight lines perpendicular to each other? (a) 2 (b) - 4 (c) -3 (d) 4

PHYSICS [20 Marks]

26.	$1 A^0$ is equal tow			
	a.10 ⁻¹⁰ m	b. 10 ⁻¹⁰ mm	c.10 ⁻¹⁰ cm	d. 10 ⁻¹⁰ km
27.	1 horse power is:			
	a.746 joule	b. 746 watt	c. 476 watt	d.764 watt
28.	The dimensional	formula of PV is	s same as:	
	a. force		b. energy	
	c. moment of iner	tia	d. upthrust	
29.	The minimum no	.of coplanar vect	tors of unequal	magnitude
	can be added to g	ive zero resultan	t are:	
	a. 2	b. 4	c. 3	d. 5

30	30. The numerical ratio of displacement to distance is				
	a. $always < 1$ b. $always = 1$				
	c. always > 1 d. may be less than equal to 1				
31	. Which law giv	es the quan	titative def	inition of fo	orce?
	a. 1 st law	1	b. 2	2 nd law	
	c. 3 rd law		d. 1	aw of grav	itation
32	. Which is not th	e unit of pr	essure?	0	
-	a. pascal	b. dvne/	cm^2 c. l	Nm	d. N/m ²
33	" If a body is em	erged in a li	auid the wei	ght of displa	aced liquid is
22	equal to the upth	rust." this is	knownas	Sin of dispi	acca inquita is
	a. Pascal's law		b. (Dhm's law	
	c. Newton's law		d. /	Archimedes	principle
34	. If two masses of	4 kg and 16	kg are movi	ng with equ	al kinetic
	energy. What wi	ll be the ratio	o of their mo	mentum	
	a. 4:1	b. 1:4	c .1	:2	d. 1:√2
35	. According to tab	le, in which	substance de	oes temperat	ture rise
	much if equal an	nount of hear	t is supplied	in same tim	e interval to
_	equal mass.				,
	Substance	۸	D	С	D
_	Substance	A	D	C	D
	Substance Sp.H.C(J/kg°C)	4200	800	<u>600</u>	400
E	Substance Sp.H.C(J/kg°C) a. A	4200 b. B	800 c. C	600	D 400 d. D
36	Substance Sp.H.C(J/kg°C) a. A . An amount of wa	A 4200 b. B ater of mass	800 c. C 20 gm at 0°c	$\frac{c}{600}$	400 d. D ith 40 gm of
36	Substance Sp.H.C(J/kg°C) a. A . An amount of wa water at 10°c. Fit	A 4200 b. B ater of mass nal temperat	B 800 c. C 20 gm at 0°C ure of the m	600 c is mixed w ixture is:	D 400 d. D ith 40 gm of
36	Substance Sp.H.C(J/kg°C) a. A . An amount of wa water at 10°c. Fin a 20°c	A 4200 b. B ater of mass nal temperat b. 6.60°c	800 c. C 20 gm at 0°c ure of the m c. 5°c	600 c is mixed w ixture is:	D 400 d. D ith 40 gm of d. 0°c
36 37	Substance Sp.H.C(J/kg°C) a. A . An amount of wa water at 10°c. Fin a 20°c . The specific hear	A 4200 b. B ater of mass nal temperat b. 6.60°c t capacity of	$\frac{B}{800}$ c. C 20 gm at 0°C ure of the m c. 5°C boiling wate	600 c is mixed w ixture is: c er is:	D 400 d. D ith 40 gm of d. 0°c
36 37 38	Substance Sp.H.C(J/kg°C) a. A . An amount of wa water at 10°c. Fin a 20°c . The specific heat a. infinite	A 4200 b. B ater of mass nal temperat b. 6.60°c t capacity of b. zero heat is requi	800 c. C 20 gm at 0°c ure of the m c. 5°c boiling wate c. 42	$\frac{c}{600}$ c is mixed w ixture is: c er is: 00 J kg ⁻¹ k ⁻¹	D 400 d. D ith 40 gm of d. 0°c d. one
36 37 38	Substance Sp.H.C(J/kg°C) a. A An amount of way water at 10°c. Fin a 20°c The specific hear a. infinite What amount of 10gm of water fi	A 4200 b. B ater of mass nal temperat b. 6.60°c t capacity of b. zero heat is requi	$\frac{B}{800}$ c. C 20 gm at 0°c ure of the m c. 5°c boiling wata c. 42 red to increa	600 c is mixed w ixture is: c er is: 00 J kg ⁻¹ k ⁻¹	d. D d. D ith 40 gm of d. 0°c d. one erature of
36 37 38	Substance Sp.H.C(J/kg°C) a. A . An amount of wa water at 10°c. Fir a 20°c . The specific hear a. infinite . What amount of 10gm of water fr	A 4200 b. B ater of mass nal temperat b. 6.60°c t capacity of b. zero heat is required rom 20°c to 3 b. 4200 L	$\frac{B}{800}$ c. C 20 gm at 0°C ure of the m c. 5°C boiling wate c. 42 red to increa 30°c?	$\frac{c}{600}$ c is mixed w ixture is: c er is: 00 J kg ⁻¹ k ⁻¹ use the temp	D 400 d. D ith 40 gm of d. 0°c d. one erature of d. 2400 L
36 37 38 39	Substance Sp.H.C(J/kg°C) a. A An amount of way water at 10°c. Fin a 20°c The specific hear a. infinite What amount of 10gm of water fin a. 420 J Which of the fol	A 4200 b. B ater of mass nal temperat b. 6.60°c t capacity of b. zero heat is requi com 20°c to 3 b. 4200 J lowing form		600 c is mixed w ixture is: c er is: 00 J kg ⁻¹ k ⁻¹ ase the temp 0 J ts the defina	d. D d. D ith 40 gm of d. 0°c d. one erature of d. 2400 J tion of
36 37 38 39	Substance Sp.H.C(J/kg°C) a. A An amount of wa water at 10°c. Fin a 20°c The specific hear a. infinite What amount of 10gm of water fin a. 420 J Which of the fol electric current?	A 4200 b. B ater of mass nal temperat b. 6.60°c t capacity of b. zero heat is requi rom 20°c to 3 b. 4200 J lowing form	800 c. C 20 gm at 0°c ure of the m c. 5°c boiling wate c. 42 red to increa 30°c? c. 24 ula represen	$\frac{c}{600}$ c is mixed w ixture is: c er is: 00 J kg ⁻¹ k ⁻¹ ase the temp 0 J ts the defina	D 400 d. D ith 40 gm of d. 0°c d. one erature of d. 2400 J tion of
36 37 38 39	Substance Sp.H.C(J/kg°C) a. A An amount of way water at 10°c. Fin a 20°c The specific hear a. infinite What amount of 10gm of water fin a. 420 J Which of the foll electric current? $a = L - \frac{Q}{2}$	A 4200 b. B ater of mass nal temperat b. 6.60°c t capacity of b. zero heat is required trom 20°c to 3 b. 4200 J lowing form $L = \frac{P}{2}$	$\frac{B}{800}$ c. C 20 gm at 0°C ure of the m c. 5°C boiling wate c. 42 red to increa 30° c? c. 24 ula represen	600 c is mixed w ixture is: c er is: 00 J kg ⁻¹ k ⁻¹ use the temp 0 J ts the defina	d. D d. D ith 40 gm of d. 0°c d. one erature of d. 2400 J tion of
36 37 38 39	Substance Sp.H.C(J/kg°C) a. A An amount of way water at 10°c. Fin a 20°c The specific hear a. infinite What amount of 10gm of water fin a. 420 J Which of the foll electric current? a. $I = \frac{Q}{t}$	A 4200 b. B ater of mass nal temperat b. 6.60°c t capacity of b. zero heat is requi rom 20°c to 3 b. 4200 J lowing form b. $I = \frac{P}{V}$	$\frac{B}{800}$ c. C 20 gm at 0°C ure of the m c. 5°C boiling wata c. 42 red to increa 30°c? c. 24 ula represen	600 c is mixed w ixture is: c er is: 00 J kg ⁻¹ k ⁻¹ ase the temp 0 J ts the defina	d. D d. D ith 40 gm of d. 0°c d. one erature of d. 2400 J tion of
36 37 38 39	Substance Sp.H.C(J/kg°C) a. A An amount of way water at 10°c. Fin a 20°c The specific hear a. infinite What amount of 10gm of water fin a. 420 J Which of the foll electric current? a. $I = \frac{Q}{t}$ c. $I = \frac{V}{R}$	A 4200 b. B ater of mass nal temperat b. 6.60°c t capacity of b. zero heat is requi com 20°c to 3 b. 4200 J lowing form b. $I = \frac{P}{V}$ d. none of	800 c. C 20 gm at 0°c ure of the m c. 5°c boiling wate c. 42 red to increa 30°c? c. 24 ula represen the above	600 c is mixed w ixture is: c er is: 00 J kg ⁻¹ k ⁻¹ ase the temp 0 J ts the defina	D 400 d. D ith 40 gm of d. 0°c d. one erature of d. 2400 J tion of
36 37 38 39 40	Substance Sp.H.C(J/kg°C) a. A An amount of way water at 10°c. Find a 20°c The specific hear a. infinite What amount of 10gm of water find a. 420 J Which of the foll electric current? a. $I = \frac{Q}{t}$ c. $I = \frac{V}{R}$ Three resistors of	A 4200 b. B ater of mass nal temperat b. 6.60°c t capacity of b. zero heat is required com 20°c to 3 b. 4200 J lowing form b. $I = \frac{P}{V}$ d. none of f 4,5 and 6 c	$\frac{B}{800}$ c. C 20 gm at 0°C ure of the m c. 5°C boiling wata c. 42 red to increa 30°c? c. 24 ula represen the above ohms are join	600 c is mixed w ixture is: c er is: 00 J kg ⁻¹ k ⁻¹ use the temp 0 J ts the defina	D 400 d. D ith 40 gm of d. 0°c d. one erature of d. 2400 J tion of
36 37 38 39 40	Substance Sp.H.C(J/kg°C) a. A An amount of way water at 10°c. Fin a 20°c The specific hear a. infinite What amount of 10gm of water fin a. 420 J Which of the foll electric current? a. $I = \frac{Q}{t}$ c. $I = \frac{V}{R}$ Three resistors of resistance will be	A 4200 b. B ater of mass nal temperat b. 6.60°c t capacity of b. zero heat is requi rom 20°c to 3 b. 4200 J lowing form b. $I = \frac{P}{V}$ d. none of f 4,5 and 6 ce	$\frac{B}{800}$ c. C 20 gm at 0°C ure of the m c. 5°C boiling wata c. 42 red to increa 30°c? c. 24 ula represen the above ohms are joir	600 c is mixed w ixture is: c er is: 00 J kg ⁻¹ k ⁻¹ ase the temp 0 J ts the defina	d. D d. D ith 40 gm of d. 0°c d. one erature of d. 2400 J tion of

41.	Which of the follow	wing instrument works under the principle of		
	electromagnetic ind	luction?		
	a. generator		b. motor	
	c. magnetic needle		d. electric bulb	
42.	Refractive index of	of light for glass	is 1.5. The velo	ocity of
	light in the glass i	s,		
	a. 3 x 10 ⁸ m/s	b. 2 x 10 ⁸ / m/s		
	c. 1 x 10 ⁸ m/s	d. 4.5 x 10^8 m/s		
43.	Mirage is observed	due toof li	ight.	
	a. dispersion	b. interference		
	c. diffraction	d. total internal	reflection	
44.	What is the power of	of a convex lens v	whose focal lengt	h is 25cm?
	a. +2 D	b2D	c. +4D	d4D
45.	The suitable mirror	for shaving is		
	a. plane	b. concave		
	c. convex	d. may be plane	or concave	

CHEMISTRY [20 Marks]

46. Correct order of reactivity of the following:					
a. Na > Li > K		b. $Li > Na > K$			
c. $K > Na > Li$		d. $K > Li > Na$			
47. The highest elect	ronegativity is of				
a. Fluorine	b. Chlorine	c. Bromine	d. Iodine		
48. Latin name of go	ld is,				
a. Ag	b. Hg	c. Au	d. Co		
49. Zero group eleme	ents has valency,				
a. 0	b. 1	c. 8	d. 18		
50. 1 Mole of carbon	contains				
a. 6.023×10 ²³ ions	s of carbon				
b. 6.023×10 ²³ mol	ecules of carbon				
c. 6.023×10^{23} atom	ms of carbon				
d. 6.023×10^{23} elec	ctrons of carbon				
51. When iron is treat	ed with very dilute	e nitric acid then	product is,		
a. N ₂ O	b. NO	c. NO_2	d. NH ₄ NO ₃		
52. Which of the follo	owing compound g	ives hydrogen ic	on when		
dissolved in water	?				
a. NaOH	b. H ₃ PO ₄	c. MgO	d. CO ₂		

5

53. Which of the following compound is base?						
	a. HCl	b. KO	Н	c.	H_2SO_4	d. PbSO ₄
54	During electrolysis of	f CuSO	4, Cu ⁺⁺	mov	e towards.	
	a. anode	b. cath	ode	c.	both	d. solution
55	Electrolysis is carried.	out by	,			
	a. AC	b. DC				
	c. either AC or DC	d. non				
56	Which gas is living g	as?				
	a. H ₂	b. O ₂		c.	N_2	d. CO ₂
57	Which catalyst is use	d in the	manufa	ctur	e of ammonia	a by Haber's
	process?					
	a. nickel	b. sod	ium	c.	iron fillings	d. copper
58	What is the general for	ormula	of alkyn	e?:		
	a. C_nH_{2n-2}	b. C _n H	[_{2n+2}	c.	C_nH_{2n}	d. C_nH_{2n+1}
59	Which of the following	ng com	pounds i	is Io	doform?	
	a. CHI ₃	b. CH	Br ₃	c.	CHCl ₃	d. CH ₄
60	Which of the following	ng proc	ess is us	ed fo	or the produc	tion of
	alcohol?					
	a. Distillation process		b. Subli	mati	on process	
	c. Evaporation proces	S	d. Deca	ntatio	on process	
61	. Raksi is called;					
	a. methyl alcohol		b. ethyl	alco	hol	
	c. ether		d. acetic	e acio	1	
62	. Aquaregia is,					
	a. conc $HNO_3 + conc$	3HC1		b. c	onc $H_2SO_4 +$	conc 3HCl
	c. conc HCl + conc 3	H_2SO_4		d. c	onc $HNO_3 + c$	conc 3H ₂ SO ₄
63	Molecular weight of	CO ₂ is,				
	a. 22 b. 2	8		c. 4	4	d. 18
64	Which of the following	ng is the	e strong	est o	xidizing spec	eies?
	a. Na ⁺ b. L	i ⁺		c. B	a^{+2}	d. Mg ⁺²
65	.The strongest reducin	g agent	is,			
	a. HNO ₂ b. l	H_2S		c. H	$_2$ SO $_3$	d. SnCl ₂

BIOLOG	Y [20 Marks]				
66.Genetics is the study of					
a. Heredity and variations					
b. Forms and features of plant	organs				
c. Growth and differentiation i	n living organisms				
d. Classification based on characters of somatic chromosome					
67. The science of vegetable culture is called					
a. Agriculture	b. Horticulture				
c. Olericulture	d. Floriculture				
68.Ginger is a					
a. root b. stem	c. tuber	d. leaves			
69.Mucor reproduces only by					
a. vegetative reproduction	b. asexual repro	oduction			
c. sexual reproduction d. all					
70. Animal viruses mostly contains genetic material					
a. DNA b. RNA	c. DNA or R	NA d. none			
71. Viruses can multiply in					
a. bacterial cells only	b. all living c	d. rotten food			
c. specific cells only	d. rotten 1000	1			
/2. The main difference between an	imai and plant cell	is that			
a. animal cell fack fight cell war	1				
o plant cell lock rigid cell wa	11				
d plant cells have small veguels	.11				
73 Extra nuclear DNA is found in	-8				
a Chloroplast	h Endonlasn	nic reticulum			
c Ribosomes	d Nucleus				
74. Blood is a	a. Tracicus				
a. reddish fluid tissue	b. brownish y	vellow tissue			
c. greenish white tissue	d. none	•110 11 •100 •••			
75. Nervous tissue consists of					
a. neutrons b. neurons	c. electrons	d. protons			
76.Genotypic ratio of monohybrid	cross is	1			
a. 3:1 b. 1:1	c. 1:2:1	d. 2:1			
77. Father of genetic is					
a. Mendel b. Wateson	c. Bateson	d. Darwin			

78. Response of organism to stimulus of touch is called a. phototaxis b. thermo taxis c. hydro taxis d. thigmo taxis 79. Plant grows in desert is called a. Pteriodophyte b. cyclophyte c. xerophyte d. hydrophyte 80.Pollination occurs in a. bryophytes and angiosperms b. pteridophytes and angiosperms c. gymnosperms and angiosperms d. bryophytes and gymnosperms 81.Reproduction in yeast is a. fission b. budding c. sporulation d. all 82.Globulin is found in: b. pancreas c. lymph a. liver d. kidney 83. Which artery carries the deoxygenated to blood? a. Pulmonary artery b. Hepatic artery c. Umbilical artery d. Coronary artery 84. Fungi is a. producers b. consumers d. all c. decomposers 85. Rabbit is

a. consumers b. producers c. decomposers d. none

ENGLISH

[15 MARKS]

- 86. The correct passivization of "Did she write the report yesterday?" is:
 - a. Was the report written yesterday by her?
 - b. Is the report written yesterday by her?
 - c. Has the report been written yesterday by her?
 - d. Will the report be written yesterday by her?
 - 87. "They opened the store at 9 a.m." changes into passive as:
 - a. The store was opened at 9 a.m.
 - b. The store had been opened at 9 a.m.
 - c. The store is opened at 9 a.m.
 - d. The store will be opened at 9 a.m.

88. He said, "I am reading a novel." changes to indirect speech as: a. He said that he reads a novel. b. He said that he was reading a novel. c. He said that he had read a novel. d. He said that he is reading a novel. 89. She said, "I will visit you next week." becomes in indirect speech as: a. She said that she will visit me the next week. b. She said that she would visit me the next week. c. She said that she visited me the next week. d. She said that she is visiting me the next week. 90. He studies at this college. Its WH-question is: a. Where does he study? b. What does he study? c. When does he study? d. Why does he study? 91. They go hiking every weekend. Its WH-question is: a. When do they go hiking? b. Why do they go hiking? c. Where do they go hiking? d. Who do they go hiking? 92. If he ____ more money, he would buy that bike. d. will have a. had b. has c. have 93. If I the invitation, I would have joined the event. a. receives b. received c. had received d. was receiving 94. He gave me ____ useful advice. b. an c. the d. no article a. 95. We saw _____ eagle flying above the hills. b. an c. the d. no article a. a 96. The children are fond _____ chocolates. a. for b. about c. with d. of 97. She is good _____ solving problems quickly. c. for d. with a. at b. in 98. He had the mechanic ____ his car. a. fixing b. fix c. to fix d. fixed

99. They got the house _____ before winter.

a. paint b. painting c. painted d. paints

100. Which modal auxiliary verb is used to express advice or suggestion?

a. must b. should c. will d. shall

All the Best



Entrance Model Questions-2082 (2) Faculty of Science

Ti	me: 2 Hrs	Full Marks	: 100	Pass Marks: 40
Ē	hoose the best optic	on and cross-r	nark the rig	ght box available
	in the answer shee	et.		
	MA	THEMATICS	8 [25 Mark	[S]
1	. What is the period of	of function $y = ta$	anx ?	
	a. π^{c} b. $2\pi^{c}$	c. 3 <i>π^c</i>	d. 4π ^c	
2.	What is the range of	y=cosx?		
	a. (-1,1)	b. [-1,1)	c. (-1,1]	d. [-1,1]
3.	Function $y = ax^2 + b$	<i>bx</i> + <i>c</i> represen	ts a linear fu	nction if:
	a. a < 0	b. a > 0	c. a=0	d. c=0
4.	If $f^{-1}(x) = \frac{2x+3}{4}$, then	what is the valu	te of $f(x)$?	
	a. $3x-2/4$	b. $^{2x+4}/3$	c. $4/_{3x+2}$	d. $\frac{4x-3}{2}$
5.	When a polynomial p	$\mathbf{p}(\mathbf{x})$ is divided b	y $(x + a)$, ren	nainder R is:
	a. p(a)	b. 0	c. p(-a)	d. $p(x + a)$
6.	If the degree of divid degree of Quotient?	end is 4m and d	livisor is m, t	hen what will be the
	a. 4m	b. 3m	c. 5m	d. m
7.	Add next two terms i	n the sequence	o, t, t, f, f, s, s	s, e, n,_,_
	a. n, e	b. t, i	c. t, e	d. e, t
8.	In the standard equation parabola opens:	ion of parabola,	y = a(x - h)	$)^{2} + k$. If a >0,
	a. upward b. dow	nward c. tow	ards right	d. towards left
9.	In which side from th	the line $y = 3$ is the	he solution re	gion of $y \le 3$ lie?
	a. Right	b. Left	c. Up	d. Down
10	. Which of the follow	ing numbers rep	presents cont	inuity?
	a. Whole number		c. Rational	number
	b. Natural number		d. Real num	lber

11. What is the determinant of a unit/Identity matrix? a. 0 d. 2 b. 1 c. -1 12. If the slopes of two lines are equal, then what is the angular relation between the lines? a. Coincident b. Normal d. Perpendicular c. Orthogonal 13. The equation of a straight line perpendicular to ax + by + c = 0 is: a. ax + by - k = 0b. bx - ay + k = 0b. c. bx + ay - k = 0d. ax + by + k = 014. For what value of k, the pair of straight lines represented by $3x^2$ + $4xy - ky^2 = 0$ are at right angle? a. 3 b. -3 c. 4 d. -4 15. What is the slope of a straight line if inclination is 45° ? a. 4 b. 2 c.1 d. 5 16. What is the equation of the pair of straight lines passing through the origin and perpendicular to the lines represented by $ax^2 + 2hxy + bxy + hxy + hxy$ $by^2 = 0?$ a. $bx^2 + 2hxy + ay^2 = 0$ b. $bx^2 - 2hxy + ay^2 = 0$ c. $ax^2 - 2hxy + by^2 = 0$ d. $ax^2 - 2hxy - by^2 = 0$ 17. The equation of a circle $(x - h)^2 + (y - k)^2 = r^2$ touches X-axis if: c. r=|y|a. r=|x|b. r=|h|d. r=|k|18. If sin A = $\frac{1}{2}$, what will be the value of sin2A? d. $\frac{\sqrt{3}}{2}$ $c. \frac{1}{\sqrt{2}}$ 1 b. 2 a. 19. If $\tan A = \cot A$, what is the value of A? c. 60° a. 30° b. 45° d. 0° 20. If $A+B+C=90^{\circ}$, then what will be the value of sin (A+B)? c. – sin C a. Sin C b. cos C $d_{-}\cos C$ 21. If $\vec{a} \cdot \vec{b} = |\vec{a}| |\vec{b}|$, What will be the angle between \vec{a} and \vec{b} ? a. 0° b. 30° c. 60° d. 90° 22. What will be the length of a string if the height of kite from ground is 30 m and angle made by string is 30°? a. $30\sqrt{3}$ m d. $30\sqrt{2}$ m b. 60m c. 30m

23. Whi	ch of the follo	wing is an examp	ole of non-isomet	ric
transf	formation?			
a. Tra	inslation	b. Reflection	c. Rotation	d. Enlargement
24. If th	ne lower and u	pper quartile of a	ny data are 10 an	nd 30 respectively,
what	is the value of	semi-interquarti	le range?	
a. 30		b. 20	c. 15	d. 10
25. Whi	ch of the follo	wing measure of	dispersion takes	the absolute
devia	tion from the	value of central te	endency?	
a.	Mean deviatio	n	c. Quartile devi	ation
b.	Standard devia	ation	d. Exodeviation	1
		PHYSICS [2	0 Marks]	
26.The	dimensional f	formula [ML ² T ⁻²	represents:	
a) ad	cceleration		b) Force	
c) ai	ngular momen	tum	d) energy	
27.Óne	astronomical	unit (AU) is equa	al to:	
a) 1	0-10		b) 1.496 x 10 ¹¹	m
c) 9	.45 x 10 ¹⁵ m		d) 4.964 x 10 ¹¹	m
28.For	which action,	more force is req	uired:	
a) to	pull a body	-	b) to push a boo	dy
c) b	oth requires eq	ual force	d) depend on co	ondition
29.A b	ody can have z	zero velocity and	still be accelerati	ng.
a) T	rue			-
b) F	alse			
c) C	an't say unless	s the mass is unki	nown	
d) N	lone of the abo	ove		
30.The	initial magnitude	ude of momentum	n of a projectile p	projected at an
angl	θ is P, the m	agnitude of mom	entum at top mos	st point will be:
a) P	$\cos\theta$	b) P tan θ	c) p sinθ	d) P Cotθ
31.The	refractive inde	ex is:		
a) so	calar		b) vector	
c) b	oth scalar and	vector	d)neither scala	ar nor vector
32.Glit	tering of diam	ond is due to,		
a) ir	iterference		b) dispersion	
c) re	efraction		d) total internal	reflection
33.The	velocity of lig	ght is maximum in	1,	
a) d	iamond	b) water	c) glass	d) vaccum

34.Power of convex l	ens with focal len	gth 50 cm is,	
a) - 2D	b) 1/50	c) +2D	d) - 1/50 D
35.For which of the f	ollowing color of	light refractive inde	x of the
material is high?			
a) Red	b) Green	c)Yellow	d) Violet
36. The field of view	is maximum for:		
a) plane mirror		b) concave mirror	
c)convex mirror		d) cylindrical mirr	or
37.If sky is seen from	n moon's surface i	t will appear:	
a) blue	b) black	c) white	d) red
38.In the celcius scale	e the correct value	e of absolute zero te	mperature is:
a)0°c	b)-273.15°c	c)-32°c	d)100°c
39.1 cal =			
a) 1/4.2 j	b) 4.2 j	c) 4200 j	d) 42.0 j
40. Which has the hig	hest specific heat	capacity,	
a) copper	b) water	c) hydrogen	d) silver
41.Hailstones are pro	duced/formed by	freezing of	
a) cloud	b) water vapour		
c) rain drops	d)none		
42.At what temperatu	re do celcius and	fahrenheit scale coi	ncide,
a) 40°	b) 50°	c) -40°	d) -50°
43.The minimum value	ue of charge on ar	y charged body ma	y be
a) 1.6 x 10 ⁻¹⁹ c	b)1 c	c)1/4 c	d)4.8 x 10 ⁻¹² c
44. The diameter of a	wire is reduced to	half. Now the resis	tance changes
by factor:			
a) 2	b)4	c) 8	d)16
45.Which of the follo	wing instrument i	s used to record sou	ind?
a) Amplifier b)H	leadphone c) Dict	taphone d) Phonog	graph

CHEMISTRY [20 Marks]

46. Which is the cher	nical formula of v	vater-glass.	
a) NaCO ₃	b) SiO ₃	c) Na ₂ SiO ₃	d) CaCO ₃
47. The chemical for	mula of lime wate	r is	
a) CaO	b) Ca(OH) ₂	c) CaCO ₃	d) CO ₂
48. The elements whi	ch reacted with w	ater and forms hyd	droxide and
hydrogen called	.,		
a) non metal	b) alkali metal	c) both a and b	d) none

49. In the modern periodic table, the elements are arranged in the order of their, a) atomic number b) atomic weight c) valency d) all 50.Balanced chemical equation is..... a) $NH_4Cl + NaNO_2 \rightarrow NaCl + N_2 + H_2O$ b) Mg + N₂ \rightarrow Mg₃N₂ c) $CO_2 + H_2O \rightarrow H_2CO_3$ d) Mg + O₂ \rightarrow MgO 51. Given reaction is the example of : $2KClO_3 \rightarrow 2KCl + 3O_2$ a) acid-base reaction b) decomposition reaction c) displacement reaction d) addition reaction 52. When moist blue litmus paper is dipped into acidic solution, it changes into. b) green a) red c) black d) no change 53. What is the P^H value of strong acid? a) less than 2 b) more than 2 c) less than 7 d) more than 7 54. The gas collected at anode during electrolysis of water is: a) hydrogen c) both a and b d) none b) oxygen 55. When $CaCl_2$ is ionized the it decompose on a) Ca⁺ and Cl⁻⁻ b) Ca⁺⁺and Cl⁻ c) Ca^{-} and Cl^{+} d) none 56.One of the property of nitrogen gas is..... a) heavier than oxygen b) heavier than carbon dioxide c) inert in nature d) easily soluble in water 57. Which catalyst is used in the manufacture of ammonia by Haber's process? a) nickel b) sodium c) iron fillings d) copper 58. How many electrons does carbon have in its outermost shell..... a) 2 b) 4 c) 3 d) 6 59.Glycerol is aalcohol a) trihydric b) dihydric c) ketone d) none 60.Smoke particle is an example of; a) solution b) suspension c) colloids d) all 61. Milk is an example of: b) suspension a) solution c) colloids d) none 62. Metals have the property..... a) electropositivity b) electronegativity d) none of a and b c) both and b

63.Extraction of aluminium is done from its.....

a) magnetic ore

b) bauxite ored) chalcocite ore

c) haematite ore

64. Artificial silk is,

a) rayon b) nylon c) polye

d) polythene

65. Which one is correct regarding coloured glass?

a) CaO used for blue glass

b) CuO is used for red glass

c) Cr_2O_3 is used for green glass d) All are correct

BIOLOGY [20 Marks]

66. Metabolism refers to a) Release of energy

b) Gain of energy

c) Catabolism

- d) Gain or release of energy
- 67. What is nomenclature?
 - a) Genus name is written after species

b) Genus and species names are written in italics

- c) Genus and species have the same name
- d) The first letter of genus and species name is capital
- 68. The term Cell was coined by
 - a) Robert Hooke b) Cuvier
 - c) Haeckel d) Theophrastus

69. Binomial nomenclature was given by

- a) Linnaeus b) Hugo De Vries
- c) John Ray d) Huxley
- 70. The Father of cytology is

c) diggings animals

- a) Aristotle b) Theophrastos
- c) Cuvier d) Robert Hook

71. Connecting link between living and non living organism isa) Virusb) Euglenac) Archeoptenyx d) none

- 72. Science deals with the study of reptiles is
 - a) herpetology b)Ichthyology
 - c) Entomology d) Ornithology

73. Which of the	following blood	group is universal r	eceiver?
a) AB	b) O	c) A	d) B
74. Fins are well of	developed in		
a) aquatic anim	als	b) flying ani	mals

d) running animals

c) polyester d) p

75. Response of an an	imal to the stimul	us of touch is	
a) Thermotaxis		b) Thigmotaxis	
c) Volant adaptatio	n	d) Desert adaptat	ion
76. Which one is the s	mallest bone in th	e human body?	
a) Radius	b) Ulna	c) Stapes	d) Incus
77. Which one is calle	ed mixed gland?		,
a) Pancreas	b) Thyroid	c) Pituitary	d) Thymus
78. Which one is not a	a plant?	· ·	
a) Mango	b) Orange	c) Banyan	d) Bamboo
79. Which one is calle	d the brain of cell	s?	
a) Ribosome	b) Mitochondria	c) Nucleus	d) Plastids
80. Study of blood is	called?		
a) Serology		b) Pathology	
c) Haematology		d) None of the ab	oove
81. Which one is the c	connecting link bet	tween the Pisces a	nd amphibians?
a) Lungfish	b) Hagfish	c) Dogfish	d) Starfish
82. Which one is only	present in DNA?		
a) Thymine	b) Uracil	c) Guanine	d) Adenine
83. Which one is calle	ed the brain of cell	s?	
a) Ribosome	b) Mitochondria	c) Nucleus	d) Plastids
84. Study of blood is	called?		
a) Serology		b) Pathology	
c) Haematology		d) None of the at	oove
85. Spirogyra belongs	to		
a) red algae		b) brown algae	
c) green algae		d) blue green alg	ae

ENGLISH [15 Marks]

86. The correct passivization of "*Is he repairing the bicycle*?" is:
(a) The bicycle is repaired by him.
(b) Is the bicycle being repaired by him?
(c) The bicycle is being repaired by him.
(d) Is the bicycle repaired by him?
87. *Don't let the children play in rain*....can be tagged as:
(a) ... do you?
(b) ... don't you?
(c) ... will you?
(d) ... won't you?

88. He said, "when did you arrive?" changes to indirect speech as:

(a) He asked if I arrived. (b) He asked when I arrived.

(c) He asked if I had arrived. (d) He asked when I had arrived

89. Choose the sentence in which the subject and verb agree:

- (a) The group of students are going on a trip tomorrow.
- (b) Neither the teacher nor the students was present.
- (c) Each of the players has a unique skill.
- (d) The list of items are on the table.
- 90. He usually takes some eggs in breakfast. Its WH-question is:
 - (a) Where does he take his breakfast?
 - (b) What does he take in breakfast?
 - (c) When does he take in breakfast?
 - (d) How often does he take his breakfast?
- 91. They go hiking <u>every weekend</u>. The function of underlined word is:
 - (a) Adverbial (b) Verb
 - (c) Complement (d) Object

92. If he ____ more money, he would have bought that bike.

(a) had (b) has (c) have (d) will have

93. The person wearing a red cap is <u>my</u> uncle. The word class of underlined word is

- (a) Pronoun (b) determiner
- (c) object (d) interjection

94. English is most effective language in international context. Complete the sentence with best option.

- (a) a(b) an(c) the(d) no article95. A school of poets reciting their poems at our school today. Complete the sentence with best option.
- (a) is(b) has been(c) was(d) are96. I am least interested ... account. Complete the sentence with best option.

97. Which sentence contains a correctly used relative clause?

⁽a) for (b) about (c) with (d) in

(a) The man which lives next door is a doctor.

(b) She bought the car, who was very expensive.

(c) The book that you lent me is interesting.

(d) I know the girl whom bike was stolen.

98. He had the mechanic ____ his car.

(a) fixing (b) fix (c) to fix (d) fixed 99. Finally, she becomes a teacher. The verb used in the sentence is:

(a) Transitive (b) Intransitive (c) Linking (d) Passive

100. If singular-plural analogy reads *cat* : *mice* then what completes the cognitive parallel of *butterfly*: ?

(a) flowers (b) wings (c) butterflies (d) leaves

All the Best



Entrance Model Questions-2082 (3)

Faculty of Science

Time: 2 Hrs Full Marks: 100 Pass Marks: 40
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Choose the best option and cross-mark the right box available in the answer sheet.

MATHEMATICS [25 Marks]

What is the m	inimum value	of function y =	cosx ?
a. −∞	b. 1	c1	d. 0
What is the ra	ange of $y = tany$	k?	
a. (-∞,∞)	b. [-∞,∞)	c. (-∞,∞]	d. [-∞,∞]
Function $y = 0$	ax + b represe	nts an identity	function if:
a. a = 0,b=1	b. b = 0,a=1	c. $x = 0, a = 1$	1 d. $y = 0, b = 1$
If $f(x)$ and $g(x)$	x) are two funct	tions and they a	are inverse of each
other, then wh	hat is the value	of $f \circ g(x)$?	
a. $f(x) = \frac{1}{g(x)}$	b. $g(x)=x(f)$	c. c. x	d. $g \circ f(x) = f^{-1} \circ g(x)$
When a polynor remainder R is	omial p(x) is divi s:	ded by its factor	(x - a),
a. p(-a)	b. 0	c. p(-x)	d. $p(x + a)$
If the degree of	f divisor is m and	d Quotient is 3m	, then what will be
the degree of d	ividend?		
a. 4m	b. 3m	c. 7m	d. m
Add next two t	erms in the sequ	ence s, m, t, w, t	t, _,
ı. v, b	b. f, s	c. y, u	d. z,
In the standard	equation of para	abola, y = $a(x - a)$	· h) ² + k . If k=0,
vertex of parab	ola lies on:		
a. x-axis	b. above x-axis	c. below x-axi	s d. y-axis
Does a point (2	(2,-3) lie on the so	olution region of	$2x+3y \le 2$ lie?
a. Yes	b. No c. Maybe	e d. Insufficier	nt data given
	What is the m a. $-\infty$ What is the rational set of the	What is the minimum value a. $-\infty$ b. 1 What is the range of $y = \tan x$ a. $(-\infty,\infty)$ b. $[-\infty,\infty)$ Function $y = ax + b$ represe a. $a = 0,b=1$ b. $b = 0,a=1$ If $f(x)$ and $g(x)$ are two functions other, then what is the value a. $f(x)=\frac{1}{g(x)}$ b. $g(x)=x(f)$ When a polynomial $p(x)$ is diving remainder R is: a. $p(-a)$ b. 0 If the degree of divisor is m and the degree of dividend? a. 4m b. 3m Add next two terms in the sequent a. v, b b. f, s In the standard equation of para- vertex of parabola lies on: a. x-axis b. above x-axis Does a point (2,-3) lie on the sequent a. Yes b. No c. Mayber	What is the minimum value of function $y = a\infty$ b. 1 c1 What is the range of $y = \tan x$? a. $(-\infty,\infty)$ b. $[-\infty,\infty)$ c. $(-\infty,\infty]$ Function $y = ax + b$ represents an identity a. $a = 0,b=1$ b. $b = 0,a=1$ c. $x = 0, a = 1$ If $f(x)$ and $g(x)$ are two functions and they a other, then what is the value of $f \circ g(x)$? a. $f(x) = \frac{1}{g(x)}$ b. $g(x) = x(f)$ c. c. x When a polynomial $p(x)$ is divided by its factor remainder R is: a. $p(-a)$ b. 0 c. $p(-x)$ If the degree of divisor is m and Quotient is 3m the degree of dividend? a. 4m b. 3m c. 7m Add next two terms in the sequence s, m, t, w, the a. v, b b. f, s c. y, u In the standard equation of parabola, $y = a(x - x)$ vertex of parabola lies on: a. x-axis b. above x-axis c. below x-axis Does a point (2,-3) lie on the solution region of a. Yes b. No c. Maybe d. Insufficient

10.	Which of the	following exam	ole represents di	scontinuity?
	a. Movement	of snake	b. Growth of pl	lants
	c. Graph of y	= tanx	d. Graph of $y =$	sinx
11.	What is the de	eterminant of [-1]?	
	a. 0	b. 1 c1	d. cannot be de	termined
12.	If the plane in	tersects a cone i	n such a way the	at it is parallel to the
	generator of c	one, what is the	name of conic s	section thus formed?
	a. Circle	b. Ellipse	c. Parabola	d. Hyperbola
13.	In a rhombus	ABCD, diagona	ls AC and BD in	ntersects at O, What
	will be the any	gular measurem	ent of ∡<i>COD</i> ?	
	a. 180°	b. 0°		
	c. 90°	d. varies accord	ling to the size of	of figure.
14.	If the line y=r	m_1x and $y=m_2x$ a	re at constant d	istance and never
	intersect, what	t is the relation l	between the slop	bes?
	a. $m_1 \times m_2 = -1$	b. $m_1 = m_2$	c. $m_1 \times m_2 = 1$	d. $m_1 = \frac{1}{m_1}$
15	What is the sl	and of a straight	line if inclination	m_2
13.	what is the si			
1.0		02	$\begin{array}{c} C1 \\ \vdots & y \\ \end{array}$	u. u
16.	The equation	of straight line –	$+\frac{1}{2} = 1$ is calle	d equation of a
		e a	b	1
	straight line in	1 a	b	form.
	straight line in a. Slope-intere	n cept	b. Double-inter	form. rcept
	straight line in a. Slope-intere c. Slope-point	n cept	b. Double-inter d. Two-point	form. rcept
17.	straight line in a. Slope-inter c. Slope-point The center of	n cept t the circle having	b. Double-inter d. Two-point g equation $(x - I)$	form. rcept $(y + k)^2 = r^2$ is:
17.	straight line in a. Slope-inter c. Slope-point The center of a. (-h, -k)	the circle having b. (h, -k)	b. Double-inter d. Two-point g equation $(x - H)$ c. $(-h, k)$	form. rcept $(y + k)^2 = r^2$ is: d. (h, k)
17. 18.	straight line in a. Slope-inter c. Slope-point The center of a. (-h, -k) If $\cos A = \frac{\sqrt{3}}{2}$	n cept t the circle having b. (h, -k) , what will be th	b. Double-inter d. Two-point g equation $(x - H)$ c. (-h, k) e value of $\cos 2H$	form. rcept $(y + k)^2 = r^2$ is: d. (h, k) A?
17. 18.	straight line in a. Slope-intervent c. Slope-point The center of a. (-h, -k) If $\cos A = \frac{\sqrt{3}}{2}$	the circle having b. (h, -k) , what will be th	b. Double-inter d. Two-point g equation $(x - H)$ c. (-h, k) e value of $\cos 2H$	form. recept $(y + k)^2 = r^2$ is: d. (h, k) A?
17. 18.	straight line in a. Slope-interv c. Slope-point The center of a. (-h, -k) If $\cos A = \frac{\sqrt{3}}{2}$ a. $\frac{1}{2}$	the circle having b. (h, -k) , what will be th b. $\sqrt{3}$	b. Double-inter d. Two-point g equation $(x - I)$ c. (-h, k) e value of cos2 <i>I</i> c. $\frac{1}{\sqrt{2}}$	form. recept $a^2 + (y + k)^2 = r^2$ is: d. (h, k) A? d. $\frac{\sqrt{3}}{2}$
17. 18. 19.	straight line in a. Slope-interv c. Slope-point The center of a. (-h, -k) If $\cos A = \frac{\sqrt{3}}{2}$ a. $\frac{1}{2}$ If $\cos A = \sec c$	the circle having b. (h, -k) what will be th b. $\sqrt{3}$ A, what is the p	b. Double-inter d. Two-point g equation $(x - H)$ c. (-h, k) e value of cos2A c. $\frac{1}{\sqrt{2}}$ possible value of	form. recept $(y + k)^2 = r^2$ is: d. (h, k) A? d. $\frac{\sqrt{3}}{2}$ f A?
17. 18. 19.	straight line in a. Slope-interac. C. Slope-point The center of a. (-h, -k) If $\cos A = \frac{\sqrt{3}}{2}$ a. $\frac{1}{2}$ If $\cos A = \sec a$	the circle having b. (h, -k) what will be th b. $\sqrt{3}$ A, what is the p b. 45°	b. Double-inter d. Two-point g equation $(x - I)$ c. (-h, k) e value of cos2A c. $\frac{1}{\sqrt{2}}$ possible value of c. 60°	form. recept $(y + k)^2 = r^2$ is: d. (h, k) A? d. $\frac{\sqrt{3}}{2}$ f A? d. 90°
17. 18. 19. 20.	straight line in a. Slope-interv c. Slope-point The center of a. (-h, -k) If $\cos A = \frac{\sqrt{3}}{2}$ a. $\frac{1}{2}$ If $\cos A = \sec a$ b. 0° If A+B = 100	the circle having b. (h, -k) , what will be th b. $\sqrt{3}$ A, what is the p b. 45° g, then what will	b. Double-inter d. Two-point g equation $(x - H)$ c. (-h, k) e value of cos2A c. $\frac{1}{\sqrt{2}}$ possible value of c. 60° be the value of	form. recept $a)^{2} + (y + k)^{2} = r^{2} \text{ is:}$ d. (h, k) A? d. $\frac{\sqrt{3}}{2}$ f A? d. 90° sin (A+B)?
17. 18. 19. 20.	straight line in a. Slope-interv c. Slope-point The center of a. (-h, -k) If $\cos A = \frac{\sqrt{3}}{2}$ a. $\frac{1}{2}$ If $\cos A = \sec C$ b. 0° If A+B = 100° a. sin C	the circle having b. (h, -k) , what will be th b. $\sqrt{3}$ e A, what is the p b. 45° g, then what will b. cos C	b. Double-inter d. Two-point g equation $(x - I)$ c. (-h, k) e value of $\cos 2I$ c. $\frac{1}{\sqrt{2}}$ possible value of c. 60° be the value of c sin C	form. recept $a)^{2} + (y + k)^{2} = r^{2} \text{ is:}$ d. (h, k) A? d. $\frac{\sqrt{3}}{2}$ f A? d. 90° sin (A+B)? d cos C
 17. 18. 19. 20. 21. 	straight line in a. Slope-intervention c. Slope-point The center of a. (-h, -k) If $\cos A = \frac{\sqrt{3}}{2}$ a. $\frac{1}{2}$ If $\cos A = \sec \alpha$ a. 0° If A+B = 100° a. sin C If $\vec{a}. \vec{b} = - \vec{a} $	the circle having the circle having b. (h, -k) , what will be th b. $\sqrt{3}$ A, what is the p b. 45° g, then what will b. cos C $\vec{a} \vec{b} $, What will	b. Double-inter d. Two-point g equation $(x - H)$ c. (-h, k) e value of cos2A c. $\frac{1}{\sqrt{2}}$ possible value of c. 60° be the value of c sin C be the angle be	form. recept $h)^{2} + (y + k)^{2} = r^{2} \text{ is:}$ d. (h, k) A? d. $\frac{\sqrt{3}}{2}$ f A? d. 90° sin (A+B)? d cos C etween \vec{a} and \vec{b} ?
 17. 18. 19. a 20. 21. 	straight line in a. Slope-intervent c. Slope-point The center of a. (-h, -k) If $\cos A = \frac{\sqrt{3}}{2}$ a. $\frac{1}{2}$ If $\cos A = \sec C$ b. 0° If A+B = 100° a. $\sin C$ If $\vec{a}. \vec{b} = - \vec{a} $ a. 0°	the circle having the circle having b. (h, -k) , what will be th b. $\sqrt{3}$ e A, what is the p b. 45° g, then what will b. cos C $\vec{a} \vec{b} $, What will b. 90°	b. Double-inter d. Two-point g equation $(x - H)$ c. (-h, k) e value of cos2A c. $\frac{1}{\sqrt{2}}$ possible value of c. 60° be the value of c sin C be the angle be c. 180°	form. reept $h)^{2} + (y + k)^{2} = r^{2} \text{ is:}$ d. (h, k) A? d. $\frac{\sqrt{3}}{2}$ f A? d. 90° sin (A+B)? d cos C etween \vec{a} and \vec{b} ? d. 360°
 17. 18. 19. 20. 21. 22. 	straight line in a. Slope-intervention c. Slope-point The center of a. (-h, -k) If $\cos A = \frac{\sqrt{3}}{2}$ a. $\frac{1}{2}$ If $\cos A = \sec a$ b. 0° If A+B = 100° a. sin C If $\vec{a}. \vec{b} = - \vec{a} ^2$ a. 0° In daytime, th	the circle having the circle having b. (h, -k) , what will be th b. $\sqrt{3}$ A, what is the p b. 45° g, then what will b. cos C $\vec{a} \vec{b} $, What will b. 90° the length of shad	b. Double-inter d. Two-point g equation $(x - I)$ c. (-h, k) e value of cos2 <i>A</i> c. $\frac{1}{\sqrt{2}}$ possible value of c. 60° be the value of c sin C be the angle be c. 180° ow of a tower is	form. reept $a)^{2} + (y + k)^{2} = r^{2} \text{ is:}$ d. (h, k) A? d. $\frac{\sqrt{3}}{2}$ f A? d. 90° sin (A+B)? d cos C etween \vec{a} and \vec{b} ? d. 360° s equal to its height.
 17. 18. 19. a 20. 21. 22. 	straight line in a. Slope-intervention c. Slope-point The center of a. (-h, -k) If $\cos A = \frac{\sqrt{3}}{2}$ a. $\frac{1}{2}$ If $\cos A = \sec A$ a. 0° If A+B = 100 a. $\sin C$ If $\vec{a}. \vec{b} = - \vec{a} $ a. 0° In daytime, the all	the circle having the circle having b. (h, -k) , what will be th b. $\sqrt{3}$ e A, what is the p b. 45° g, then what will b. cos C $\vec{a} \vec{b} $, What will b. 90° the length of shad titude of the sum	b. Double-inter d. Two-point g equation $(x - H)$ c. (-h, k) e value of cos2A c. $\frac{1}{\sqrt{2}}$ possible value of c. 60° be the value of c sin C be the angle be c. 180° ow of a tower is ?	form. recept $a)^{2} + (y + k)^{2} = r^{2} \text{ is:}$ d. (h, k) A? d. $\frac{\sqrt{3}}{2}$ f A? d. 90° sin (A+B)? d cos C etween \vec{a} and \vec{b} ? d. 360° s equal to its height.
 17. 18. 19. 20. 21. 22. 	straight line in a. Slope-intervent c. Slope-point The center of a. (-h, -k) If $\cos A = \frac{\sqrt{3}}{2}$ a. $\frac{1}{2}$ If $\cos A = \sec \alpha$ a. 0° If $\vec{a} \cdot \vec{b} = - \vec{a} ^{2}$ a. 0° If $\vec{a} \cdot \vec{b} = - \vec{a} ^{2}$ a. 0° In daytime, th What is the all a. 93 million of	the circle having the circle having b. (h, -k) , what will be th b. $\sqrt{3}$ A, what is the p b. 45° g, then what will b. cos C $\vec{a} \vec{b} $, What will b. 90° the length of shad titude of the sum miles	b. Double-inter d. Two-point g equation $(x - I)$ c. (-h, k) e value of cos2 <i>A</i> c. $\frac{1}{\sqrt{2}}$ possible value of c. 60° be the value of c sin C be the angle be c. 180° ow of a tower is ? b. 2.38855 mill	form. recept $\mathbf{a}^{2} + (\mathbf{y} + \mathbf{k})^{2} = \mathbf{r}^{2} \text{ is:}$ d. (h, k) A? d. $\frac{\sqrt{3}}{2}$ f A? d. 90° sin (A+B)? d cos C etween \vec{a} and \vec{b} ? d. 360° s equal to its height. tion miles

23.	In which of the following tran not congruent?	nsformation the o	object and image are
	a. Translation b. Reflection	c. Rotation	d. Enlargement
24.	If the object is inside the inv image lie?	ersion circle, wh	ere does its
	a. Inside circle	b. at circumfere	ence
	c. outside circle	d. at infinity	
25	Which of the following is not	t associated with	the measures of
201	dispersion?		
	a Mean deviation	c. Quartile devi	iation
	b Standard deviation	d Exodeviation	nución 1
	b. Standard deviation	u. Exoue viulioi	1
	PHYSICS	[20 Marks]	
26.	The SI unit of velocity is:		
	a) m^2/s b) m/s	c) m/s^2	d) m
27.	A car moving with uniform v	elocity has:	
	a) Increasing acceleration	b) Zero acceler	ration
	c) Decreasing acceleration	d) No velocity	,
28.	Which of the following is a	vector quantity?	
	a) Speed b) Distance	c) Displacemen	t d) Energy
29.	If a body covers 80 m in 4 se	conds, its speed i	is:
	a) 10 m/s b) 20 m/s	c) 16 m/s	d) 8 m/s
30.	Newton's Third Law states:	,	,
	a) $F = ma$	b) Action =	Reaction
	c) Object in rest remains at re	est d) Weight =	$mass \times gravity$
31.	Work is said to be done when	n:	
	a) force is applied		
	b) object moves		
	c) displacement occurs in the	direction of force	e
	d) all of the above		
32.	The SI unit of work is:		
	a) Newton b) Joule c)	Watt d) Ca	lorie
33.	A man pushes a wall but it d	oes not move. Th	ne work done is:
	a) Maximum b) Zero c)	Minimum d) N	egative
34.	Power is defined as:	,	0
	a) Work \times time	b) Force / time	
	c) Work / time	d) Energy / for	ce

35.	One kilowatt is equal to:
	a) 1000 J b) 100 c) 1000 W d) 10 W
36.	Heat flows from:
	a) Cold to hot b) Hot to cold c) Both ways d) Never flows
37.	The temperature at which water boils at normal pressure is:
	a) 0°C b) 50°C c) 100°C d) 212°C
38.	Loudness of sound depends on:
	a) Frequency b) Amplitude c) Wavelength d) Time period
39.	Real images are always:
	a) Upright b) Virtual c) Inverted d) Magnified
40.	Angle between normal and incident ray is called:
	a) Angle of reflection b) Angle of refraction
	c) Angle of incidence d) Right angle
41.	Where should an object be placed in front of convex lens to have
	magnification of convex lens to have magnification equals to 1?
	a) at 2F b) between F & 2F c) at F d) between F & O
42.	Which of the following is a unit of magnetic flux?
	a) Tesla b) Weber c) Ampere d) Ohm
43.	Up thrust is the force experienced by an object
	immersed in a fluid.
	a) downward b) horizontal c) upward d) gravitational
44.	What is the mass of an object weighing 98 N ($g = 9.8 \text{ m/s}^2$)?
	a) 10 kg b) 9.8 kg c) 98 kg d) 100 kg
45.	What makes the diamond to shine?
	a) Reflection of light b) Refraction of light
	c) Total internal reflection d) Critical angle
1.5	CHEMISTRY [20 Marks]
46.	Who is known as the father of the modern periodic table?

	a) Mendeleev	b) Dalton	c) Dobereiner	d) Newlands
47.	Which of the fo	llowing is an a	alkali metal?	
	a) Calcium b)) Magnesium	c) Sodium	d) Aluminum
48.	The reaction in v	which heat is a	released is called	d:
	a) Endothermic		b) Exothermic	
	c) Displacement	t	d) Double displ	lacement
49.	A substance that	t speeds up a o	chemical reaction	n but is not
	consumed is:			
	a) Solute	b) Catalyst	c) Base	d) Inhibitor

50.	Which gas turns lime water milky?
	a) Oxygen b) Hydrogen c) Nitrogen d) Carbon dioxide
51.	Which metal is extracted from bauxite ore?
	a) Iron b) Aluminum c) Zinc d) Copper
52.	The reddish-brown gas released during the heating of lead
	nitrate is:
	a) NO b) NO ₂ c) SO ₂ d) CO_2
53.	General formula of alkanes is:
	a) C_nH_{2n+2} b) C_nH_{2n} c) CnH_{2n-2} d) C_nH_n
54.	Which of the following is used as a fuel in welding?
	a) Ethane b) Propane c) Ethyne d) Methanol
55.	Bleaching powder is chemically:
	a) CaCl ₂ b) Ca(OH) ₂ c) CaOCl ₂ d) NaCl
56.	Which of the following is main ore of copper?
	a) Chalcocite b) Cuprite c) Copper pyrite d) Malachite
57.	What is the primary method of producing ammonia gas
	industrally?
	a) Haber process b) Solvay process
	c) Contact process d) Ostwaald
58.	In which reaction two or more reactants combine to form a single
	product?
	a) Combination b) Displacement
	c) Decomposition d) Acid-base
59.	Halogens are kept in the group
	a) IA b) VIIIA c) IIA d) VIIA
60.	Which gas is released by refrigerators?
	a) CFC b) Carbon monoxide c) CFl d) Nitrogen
61.	Name the chemical compounds required for the laboratory
	preparation of carbon dioxide gas?
	a) Calcium carbonate and hydrochloric acid
	b) Ammonium chloride
	c) Sodium carbonate and nitric acid
	d) Magnesium chloride
62.	What is the common name of calcium oxide?
	a) Quick lime b) Salked lime
	c) Lime water d) Calcium carbonate
63.	In what temperature carbon dioxide is cooled to make dry ice?

- 64. Which of the following statement is wrong about detergent?
 - a) They are used in soft water only
 - b) They are used both in soft and hard water
 - c) They decrease the surface tension of water
 - d) They can be prepared from benzene sulphonic acid
- 65. If an atom of an element has three electrons in its outermost orbit, what will be its valency?
 - a) 1 b) 3 c) 8 d) 2

BIOLOGY [20 Marks]

66.	Which of the following is the basic structural unit of life?				
	a) Atom	b) Cell	c) Tissue	d) Organ	
67.	Heredity is the	transmission c	of traits from:		
	a) Teachers to s	students	b) Friends to t	friends	
	c)Parents to off	spring	d) Environme	nt to organisms	
68.	3. The layer of	gases surround	rrounding the earth is called: b) Hydrosphere		
	a) Lithosphere	9			
	c) Biosphere		d) Atmospher	e	
69.	Homo sapiens	belong to which	ch kingdom?		
	a) Animalia	b) Plantae	c) Fungi	d) Protista	
70.	The queen hone	eybee lays how	v many eggs in	a day	
	a)10–50	b) 100–200	c) 500–1	500 d) 1500–2000	
71.	Which of the fo	ollowing helps	in photosynthe	esis?	
	a) Chloroplast	b) Mitochone	dria c) Riboso	ome d) Lysosome	
72.	2. Which organ removes nitrogenous waste from the human		m the human		
	body?				
	a) Liver	b) Kidney	c) Lungs	d) Heart	
73.	Which part of t	he brain contro	ols voluntary a	ctions?	
	a) Cerebellum	b) Medulla	c) Cerebrum	d) Spinal cord	
74.	Which of these	is not a charac	cteristic of livir	ng beings?	
	a) Reproduction	n b) Respirat	ion c) Growt	h d) Rusting	
75.	Which gas is re	esponsible for g	global warming	<u>g</u> ?	
	a) Oxygen		b) Nitrog	gen	
	c) Carbon diox	ide	d) Hydro	gen	

76.	Which of the following tissue is responsible for transporting water in plants?		
	a) xylem b) phloem c) parenchyma d) coll	enchyma	
77.	7. Plants of which division are known as amphibian pla	ants?	
	a) Bryophyta b) Tracheophyta c) Pteridophyta c	l) Algae	
78.	A multicellular animal possessing tentacles fall in which		
	phylum?		
	a) Mollusca b) Porifera c) Protozoa d) Coelen	terata	
79.	9. Why are pines are kept in sub-division gymnosperm	?	
	a) It has needle shaped leaves. b) It has chlorophyll		
	c) It has naked seed d) It has cone instead	of fruit	
80.). Name the pores present in the body of porifera.		
	a) Osculum b) Nephridia c) Ostia d	l) Spircle	
81.	. Name the term which is used to organism having both male and		
	female reproductive organs in its body.		
	a) Hermaphrodite b) Saprophyte		
	c)Autotroph d) Heterotroph		
82.	. How many chambered are there in the heart of frog?		
	a) 4 chambered b) 3 chambered		
~~	c) 2 chambered d) 5 chambered		
83.	3. Name the types of organisms which lay egg.		
	a) viviparous b) oviparous		
0.4	c) carnivorous d) all of above		
84.	4. How many pair of chromosomes are there in housef	ly?	
05	a) 6 pairs b) 8 pairs c) 12 pairs d)	10 pairs	
85.	5. What is the full form of IVF?		
	a) Internal fertilization c) In situ fertilization		
	b) Invitro fertilization d) Invitro female		

ENGLISH [20 Marks]

86. The correct passivization of "Are they painting the house?" is:

- (a) Is the house painted by them?
- (b) The house is painted by them.
- (c) Is the house being painted by them?
- (d) The house is being painted by them.

87. Do not open the window,... (Choose the correct question tag):

- (a) do you? (b) don't you?
- (c) will you? (d) won't you?
- 88. She asked, "Why are you crying?" \rightarrow Indirect speech:
 - (a) She asked why I cried. (b) She asked why was I crying.
 - (c) She asked why I was crying. (d) She asked why had I cried.
- 89. Choose the grammatically correct sentence:
 - (a) The team of players are ready.
 - (b) Neither the boys nor the teacher are here.
 - (c) Every student have a notebook.
 - (d) A bunch of keys are lying on the table.

90. He drinks milk every night. The WH-question for this is:

- (a) What does he drink every night?
- (b) When does he drinks milk?
- (c) Why does he drinks milk?
- (d) How much he drinks every night?
- 91. They arrived late <u>yesterday</u>. The function of the underlined word is:
 - (a) Complement (b) Verb (c) Adverbial (d) Object
- 92. If she ____ more time, she would have completed the task.
 - (a) had (b) has (c) have (d) will have
- 93. The boy holding a green balloon waved at us. The word class of us is:
 - (a) Determiner (b) Pronoun (c) Preposition (d) Object

94. He is ... honest man. Complete the sentence:

- (a) an (b) a (c) the (d) no article
- 95. A herd of elephants ... moving toward the river. (a) is (b) are (c) have been (d) were
- 96. She is keen ... learning languages.
 - (a) for (b) about (c) on (d) in

97. Identify the sentence with a correctly used relative clause:

(a) That is the man which helped me.

(b) The film who we watched was boring.

(c) I know the boy whose phone was lost.

(d) She met a girl whom name is Anna.

98. I had the plumber _____ the leaking pipe.
(a) fixing
(b) fixed
(c) to fix
(d) fix
99. Eventually, he became an artist. The verb "became" is:

(a) Transitive
(b) Linking
(c) Passive
(d) Causative

100. If analogy is dog: bark, then cow: ?

(a) bray
(b) cry
(c) moo
(d) grunt

All the Best &



Tin	ne: 2 Hrs	Full Marks: 100	Pass Marks: 40

Choose the best option and cross-mark the right box available in the answer sheet.

MATHEMATICS [25 Marks]

1.	What is the range of function $y = sinx$?			
	a (-1,1)	b. [-1,1)	c. (-1,1]	d. [-1,1]
2.	What is the	period of y=cosx	?	
	a. π^c	b. 2 <i>π^c</i>	c. 3 <i>π^c</i>	d. $4\pi^{c}$
3.	Function y	$=ax^3+bx^2+$	cx + d represent	sents a quadratic
	function if	:		
	a. a < 0	b. a > 0	c. a=0	d. c=0
4.	If $f(x) = \frac{3x}{3}$	$\frac{-2}{5}$, then what is	the value of f	(x)?
	a. $\frac{2x-3}{5}$	b. $\frac{5x-2}{2}$	c. $\frac{3x+2}{5}$	d. $\frac{5x+2}{2}$
5.	When a po	lynomial p(x) is	divided by (x	- a), remainder R is:
	a. p(a)	b. 0	c. p(-a)	d. $p(x + a)$
6.	If the degree	ee of dividend is	4m and Quot	ient is 3m, then what
	will be the	degree of divisor	:?	
	a. 4m	b. 3m	c. 7m	d. m
7.	Add next two terms in the sequence j, f, m, a, m, j, j, _ ,			
	a. k, o	b. a, s	c. t, s	d. k, k
8.	In the stand	dard equation of	parabola, y =	$a(x-h)^2 + k$. If a <0,
	parabola o	pens:		
	a. upwar	b. downward c	. towards righ	nt d. towards left
9.	In which si	de from the line	x = 2 is the so	Solution region of $x \le 2$
	lie?			
	a. Right	b. Left	c. Up	d. Down

10.	Which of the following numbers represents discontinuity?			
	a. Whole numb	ber	c. Rational n	umber
	b. Both		d. None	
11.	What is the dete	erminant of a s	singular matrix	?
	a. 0	b. 1	c1	d. 2
12.	If the product o	f slopes of two	o lines is equal	to -1, then what is the
	angular relation	between the l	ines?	
	a. Coincident	b. Collinear	c. Orthogona	l d. Parallel
13.	The equation of	f a straight line	e parallel to ax	+ by + c = 0 is:
	a. $ax + by - k =$	= 0	c. $bx - ay + l$	$\mathbf{k} = 0$
	b. $bx + ay - k$	= 0	d. $ax + by + by$	$\mathbf{k} = 0$
14.	For what value	of k, the pair of	of straight lines	s represented by
	$9x^2 + 12xy +$	$ky^2 = 0$ are	at constant dist	ance and never
	intersect?			
	a. 4	b9	c. 9	d. 3
15.	What is the slo	pe of a straigh	nt line if inclina	tion is 135°?
	a. 1	b2	c1	d5
16.	What is the equ	uation of the p	air of straight l	ines passing through
	the origin and	perpendicular	to the lines rep	bresented by bx^2 +
	$2hxy + ay^2 =$	= 0?		
	a. $bx^2 + 2hxy$	$x + ay^2 = 0$	b. $bx^2 - 2hx^2$	$xy + ay^2 = 0$
	c. $ax^2 - 2hxy$	$y + by^2 = 0$	d. $ax^2 - 2hx$	$xy - by^2 = 0$
17.	The equation o	of a circle $(x - x)$	$(\mathbf{h})^2 + (\mathbf{y} - \mathbf{k})^2$	$(z)^2 = r^2$ touches Y-
	axis if:			
	a. $r= x $	b. r= h	c. $r= y $	d. r= k
18	If sin 2A = $\frac{\sqrt{3}}{\sqrt{3}}$	what will be	the value of sir	nA?
10.	1 2	_	1	./2
	a. $\frac{1}{2}$	b. √3	C. $\frac{1}{\sqrt{2}}$	d. $\frac{\sqrt{3}}{2}$
19.	If $\cos A = \sin A$	A, what is the	value of A?	2
	a. 30°	b. 45°	c. 60°	d. 0°
20.	If $A+B+C=360$)°, then what y	will be the valu	e of sin (A+B)?
	a. Sin C	b. cos C	c. – sin C	d. – cos C
21	If $\vec{a} \vec{b} = 0$ W	/hat will he th	ne angle hetwe	en \vec{a} and \vec{b} ?
21.	a 0°	nat win be ti	h 30°	$c 60^\circ d 90^\circ$
22	What will be th	ne length of a	string if the hei	oht of kite from
	ground is 30 m	and angle ma	de by string is	60°?
	$a 60\sqrt{3}m$	h 60m	$c 20\sqrt{3}m$	$d 15\sqrt{3}m$
	a. 00 y Jili	0.0011	20	u. 15 y 5111
			30	

•••						
23.	Which of the following is not	an example of i	sometric			
	transformation?					
	a. Translation b. Reflection	c. Rotation	d. Enlargement			
24.	If the Q.D. and upper quartile of any data are 10 and 30					
	respectively, what is the value of semi-interquartile range?					
	a. 30 b. 20	c. 15	d. 10			
25.	Which of the following measure of dispersion is called root mean					
	square deviation?					
	a. Mean deviation	c. Quartile dev	iation			
	b. Standard deviation	d. Exodeviation	xodeviation			
	PHYSICS	[20 Marks]				
26.	The unit of force is:					
	a) Joule b) Watt	c) Newton	d) Pascal			
27.	A rocket moves forward by:	,	.,			
	a) Air pressure	b) Thrust of fue	el			
	c) Action-reaction principle	d) Engine now	er er			
28	Which of the following is not	a contact force	?			
20.	a) Tension b) Gravity	c) Friction	d) Air resistance			
29	The unit of pressure is:	c) i netion	a) i in resistance			
27.	a) Newton b) Pascal	c) Ioule	d) Watt			
30	Atmospheric prossure is measured by:					
50.	a) Thermometer, b) Manometer					
a) Parometer d) Hydrometer						
31	A simple machine increases:					
51.	a) Force b) Fnergy	c) Work	d) Time			
32	A pulley is used to:	c) work	d) Thic			
52.	a) Increase friction	b) Change direction of force				
	c) Decrease weight	d) Stop motion				
23 Machanical advantage is defined as:						
55.	a) Load/Effort	b) Effort/Load				
	c) Output/Input	d) Load × Effort				
34	Power is measured in:					
5	a) N b) I	c) W	d) m/s			
35	The work done in lifting a 10	N load by 2 m	is.			
	a) 10 I b) 20 I	c) 5 I	d) 2 I			
36	The unit of heat is:	-,	-,			
50.	a) Watt b) Newton	c) Joule	d) Pascal			
		1	a, i useui			
	31					
37.	The SI unit of temperature is:					
-----	--	------------------------	-----------------------------	---------------------------	--	
	a) Celsius	b) Kelvin	c) Fahrenheit	d) Calorie		
38.	The range of h	uman hearing	is:			
	a) 20 – 2000 Hz	Z	b) 200 – 20000) Hz		
	c) 20 – 20000 H	Ηz	d) 2000 – 2000	00 Hz		
39.	The speed of lig	ght in vacuum	is:			
	a) 3 × 10 ⁵ m/s	b) 3×10^{8} m	/s c) 3×10^{6} m	/s d) 3×10^4 m/s		
40.	Which mirror is	s used in solar	cookers?			
	a) Convex	b) Concave	c) Plane	d) None		
41.	The refractive i	ndex of diamo	ond is 2.42. If sp	eed of light in		
	vacuum is 3 X	10^8 m/s then w	hat is the speed	of light in		
	diamond?					
	a) 1.5 X 10 ⁸ m/s		b) 1.24 X 10 ⁸ m	n/s		
	c) 2 X 10 ⁸ m/s		d) 2.42 X 10 ⁸ m	n/s		
42.	How much time does a stone take to reach on the surface of the					
	earth dropped f	rom the height	t of 20 m?			
	a) 2 seconds	b) 4 seconds	c) 10 seconds	d) 20 seconds		
43.	What is the uni	it of power of	lens?			
	a) Newton (N)	b) Watt (W)	c) Joule (J)	d) Dioptre (D)		
44.	One complete c	ycle of motion	n is called:			
	a) Vibration	b) Period	c) Oscillation	d) Frequency		
45.	If the same mag	gnitude of upth	rust acts on the	three cubical balls		
	made up of diff	erent materials	s on keeping the	m in water, which		
	one of the follo	wing quantitie	s is equal for the	em?		

a) Density b) Weight c) Volume d) Mass

CHEMISTRY [20 Marks]

- 46. The vertical columns in the periodic table are called:
 a) Periods
 b) Groups
 c) Rows
 d) Series
- 47. Which of the following elements shows properties of both metals and non-metals?
 - a) Sulfur b) Silicon c) Phosphorus d) Carbon
- 48. Which one is a physical change?a) Rusting of ironb) Melting of iced) Burning of coalc) Digestion of food
- 49. Which gas is used in photosynthesis?a) Oxygen b) Hydrogen c) Carbon dioxide d) Nitrogen

50.	Ammonia gas is basic because it:		
	a) Turns red litmus blue	b) Turns blue litmus re	ed
	c) Burns in air	d) Is colorless	
51.	Which one is not a property o	f metals?	
	a) Good conductor	b) Lustrous	
	c) Brittle	d) Ductile	
52.	The metal that reacts with col	d water is:	
	a) Copper b) Iron	c) Sodium d) Si	lver
53.	Which of the following is a sa	aturated hydrocarbon?	
	a) Ethene b) Ethyne	c) Methane d) Be	enzene
54.	Which of the following is a ho	ousehold base?	
	a) HCl b) NaOH	c) Vinegar d) Bak	ting soda
55.	Which of the following is use	d in cold packs?	
	a) Ammonium chloride	b) Urea	
	c) Ammonium nitrate	d) Sodium carbonate	
56.	Which process of concentration	on involves the use of w	vater?
	a) Magnetic separation	b) Forth floatation	
	c) Chemical separation	d) Gravity separation	
57.	General formula of alkyne is	·	
	a) $C_n H_{2n}$ b) $C_n H_{2n+2}$	c) CnH_{2n+1}	d) Cn H_{2n-2}
58.	Which hydrocarbon is used in	n L.P.G.?	
	a) Methane b) Ethane	c) Propane c	d) Butane
59.	Molecular formula of acetyle	ene is	
	a) C H ₂ b) CH ₄	c) C_2H_2	d) $C_2 H_4$
60.	Which alcohol is used as there	mometer liquid in thern	nometer?
	a) Methanol b) Ethanol	c) Propanol	d) Glycerol
61.	Example of detergent is	·	
	a) Sodium Sterate	b) Sodium Lauryl sulp	hate
	c) Sodium Oleate	d) Sodium palmitate	
62.	Full form of B.H.C. is	·	
	a) Boron hexa chloride	b) Butane hydro chlori	de
	c) Benzene hexa chloride	d) Brominehydro chlor	ride
63.	Urea is an example of	rich fertilizer	
	a) Nitrogen	b) Phosphorus	
	c) Potassium	d) Calcium	
64.	Bauxite is the main ore of	metal.	
	a) Silver b) Iron	c) Copper d) Alu	minium

65. Calcination process is used for							
	a) Haematite b) Magnetite	c) Siderite	d) Limonite				
	BIOLOGY [20 Marks]						
66.	The part of the cell that cont	rols all activities	is:				
	a) Nucleus	b) Mitochondr	ia				
	c) Cytoplasm	d) Ribosome					
67.	Mendel is known as the fathe	er of					
	a) Evolution b) Genetics	c) Botany	d) Heredity				
68.	Deforestation leads to:						
	a) Increase in oxygen	b) Soil erosion					
	c) More rainfall	d) Less CO ₂					
69.	Which of the following is a u	unicellular organ	ism?				
	a) Amoeba b) Earthworm	c) Mushroom	d) Ant				
70.	In honeybee society, which a	caste performs th	e function of				
	guarding?						
	a) Queen b) Drone	c) Worker	d) Larva				
71.	The process of taking in oxy	gen and releasing	g carbon dioxide				
	is called:						
	a) Photosynthesis	b) Transpiratio	n				
	c) Respiration	d) Digestion					
72.	The green pigment in plants is called:						
	a) Hemoglobin	b) Chlorophyll					
	c) Carotene	d) Xanthophyll	d) Xanthophyll				
73.	Which kingdom includes bac	cteria?					
	a) Animalia b) Monera	c) Protista	d) Fungi				
74.	DNA is mainly found in:						
	a) Mitochondria	b) Cytoplasm					
	c) Ribosome	d) Nucleus					
75.	What do bees collect from fl	owers?					
	a) Water	b) Pollen and r	nectar				
	c) Oxygen	d) Carbon diox	kide				
76.	Which system in the human	body is responsib	ole for transporting				
	nutrients and oxygen?						
	a) Respiratory system	b) Digestive	e system				
	c) Circulatory system	d) Excretor	y system				

77.	Which group of organisms are called prokaryotes?
	a) Fungi b) Protists c) Bacteria d) Algae
78.	Which one is fertile female in the beehive?
	a) Queen bee b) Drone bee c) Worker bee d) All of above
79.	Which of the following blood cells is without a nucleus?
	a) Neutrophil b) Lymphocyte c) Monocyte d) Platelet
80.	Which disease is caused due to the deficiency of haemoglobin?
	a) Diabetes b) Anaemia c) Haemophilia d) Leukemia
81.	A person feels thirstier, hungrier, dizzy and sometime faints, has
	frequent urination, blurred vision etc. What is her problem?
	a) High blood pressure b) Problem of uric acid
	c) High blood sugar in blood d) Anaemia
82.	What is the term for a characteristic is passed down from
	generation to generation?
	a) Dominant character b) Recessive character
	c) Heredity character d) Imported character
83.	Genotype ratio in F2 generation of
	a) 3:1 b) 1:2:1 c) 2:1:1 d) 1:3
84.	Which type of chromosome has one very long & one very
	short arm?
	a) Acrocentric b) Metacentric
~ -	c) Sub-metacentric d) Telocentric
85.	Chromosome is made up of protein &
	a) Carbohydrate b) Lipid c) Gene d) Hormone

ENGLISH [15 Marks]

- **86.** The correct passivization of "Open the door " is:
 - (a) Let him open the door.
 - (b) The door should be opened.
 - (c) Let the door be opened.
 - (d) It's the time to open the door.

87. Let's go for a walk... (Choose the correct question tag):

- (a) will you? (b) won't you?
- (c) shall we? (d) shan't we?

88. She said to me, "I will ask you if I need help" \rightarrow Indirect Speech

- (a) She told me she would ask me if she needed help.
- (b) She told me she will ask me if she needed help.

(c) She told me she would have asked me if she needed help. (d) She told me she had asked me if she would have needed help. 89. Choose the grammatically correct sentence: (a) The man, along with his children, lives in Kathmandu. (b) Neither the boys nor the teacher are here. (c) Every student have a notebook. (d) A bunch of keys is lying on the table. 90. I am writing an essay for English assignment. The WH-question for this is: (a) What do you do? (b) What are you doing? (c) Why are you writing? (d) How are you writing? 91. Mr Richard is the president of this institution. The function of the underlined word is: (b) compliment (c) Adverbial (a) Subject (d) Object 92. If she _____ an opportunity, she will do well. (a) will get (b) got (c) found (d) gets 93. Alas! He is dead. The word class of Alas is: (a) Determiner (b) Pronoun (c) Preposition (d) Interjection 94. He lives in UK Complete the sentence: (d) no article (a) the (b) a (c) an 95. The pair of shoes ... mine. (a) is (b) are (c) have been (d) were 96. She does laundry Saturdays. (a) for (b) on (c) by (d) in 97. Identify the sentence with a correctly used relative clause: (a) That is the man which helped me. (b) The film that we watched was boring. (c) I know the boy who phone was lost. (d) She met a girl whom name is Anna. 98. I made my brother.... me with my homework. (b) helped (a) help (c) to help (d) helps 99. Eventually, he became an artist. The verb "became" is: (a) Transitive (b) Linking (c) Passive (d) Causative 100. If analogy is dog: puppy, then cow: ? (a) calf (b) cub (c) cattle (d) kitten

All the Best



Entrance Model Questions-2082 (5) Faculty of Science

]	Fime: 2 Hrs	Full	Marks: 10	0	Pass Marks: 40	
C	Choose the best inswer sheet.	option and cr	oss-mark	the right b	ox available in the	
		MATHEM	ATICS [2	25 Marks]		
1.	Which of the	following frac	ctions is s	mallest?		
	a) 5/8	b) 7/10	c) ³ ⁄ ₄		d) 9/16	
2.	When 8 is in	creased to 10,	by what p	percentage	does it increase)?	
	a) 25%	b) 50%	c) 75%	0	d) 100%	
3.	The differenc	e between two	o positive	numbers is	s 10 and the ratio	
	between them	is 5:3, Find t	he produc	t of the two	o numbers.	
	a) 375	b) 175	c) 275		d) 125	
4.	If the profit is	20% of cost	price, wha	at is the per	centage profit of	
	selling price?					
	a) 25%	b)16.67%	c)33.3	3%	d) None	
5.	The average of 8 numbers is 30. If two new numbers 40 and 50					
	are added, wh	at is the new	average?			
	a) 32.5	b) 33	c) 34		d) 35	
6.	The simple in	terest on Rs. 3	3000 at 69	% per annu	m for $1\frac{1}{2}$ years is:	
	a) 170	b) 270	c) 370		d) 470	
7.	If $A = \{1, 3, 4\}$	$\{ and B = \{ x \} \}$: x E R an	nd x^2 - 7x +	12 = 0 then	
	which of the f	following is tr	ue?			
	a) A=B	b)A \subset B	c)B	А	d)A is equivalent	
	to B					
8.	In how many	years will the	e populati	on increase	e by 21% as	
	compared to t 10%?	he base year a	at the com	pound ann	ual growth rate of	
	a) 3 years	b)1 year	c) 2 years	d) Can't b	be determined	

9. The buying rate and selling rate of 1 US dollar are Rs 139 and Rs 140 respectively. How much Nepali rupees will you need to exchange 1000 US dollars? b)Rs 140,000 c)Rs 139,500 d)Neither of these a) Rs 139,000 10. What is the ratio of volume of a cylinder and cone having same radius and vertical height? b)3:1 a) 2:1 c)4:1 d) 3:2 11. A reflex angle is: a) More than 90 degrees b) Equal to 90 degrees c) More than 180 degrees d) Equal to 180 degrees 12. What is the LCM of the expressions $(a^3 - b^3), (a^2 + ab + b^2)$ $a_{a}(a^{2} + a^{2}b^{2} + b^{4}) \qquad b) (a^{4} + a^{2}b^{2} + b^{4})(a + b)$ $c) (a^{4} + a^{2}b^{2} + b^{4})(a - b) \quad d) \text{ None}$ 13. What is the value of $\left(\frac{243}{32}\right)^{-0.4}$? $a) \frac{4}{2}$ b) $-\frac{4}{9}$ c) $\frac{2}{3}$ a) $\frac{4}{9}$ 14. Which of the following statement is not true? a) Equal chords are equidistant from the center. b) Perpendicular bisector of the chord passes through the center of the circle. c) Angle in a semicircle are two right angles. d) Inscribed angle is half the central angle 15. What is the probability that you get two heads when a coin is tossed twice? b) 1/3 a) $\frac{1}{2}$ c) $\frac{1}{4}$ d) 1 16. What is the inverse of the function $f(x) = \frac{3x-5}{2}$? b) $\frac{2x+5}{3}$ c) $\frac{2x-5}{3}$ a) 6x-5 d) None 17. The next term of the sequence 5, 11, 23, 47, is: c) 94 d)95 a) 92 b) 93 18. The point on the line AB having points A(3,5) and B(5, -7) that divides the line in the ratio 1:2 internally is: a) $(\frac{11}{3}, 1)$ b) $(\frac{11}{3}, \frac{17}{3})$ c) $(-\frac{11}{3}, 1)$ d) $(\frac{11}{3}, -1)$ 19. Which of the inequalities contains the point (0,-2)? a) $2x - 3y \le 5$ b) $2x - 3y \ge 5$ d) $2x + 3y \ge 5$ c) $2x + 3y \le 5$ 38

20. Which of the formulae does not represent the scalar product of vectors? a) Work = Force \times Displacement b) Pressure = $\frac{Force}{Area}$ c) Velocity = $\frac{Displacement}{Time}$ d) Power = Current \times Volatge 21. If $SinA=^{1}/2$, what is the balue of sin3A a) 0 b) 1 $c)^{1/2}$ d) None 22. If $A + B + C = 90^\circ$, what is the value of sin(B + C)? a) Cos A b) - CosA c)sinA d) – SinA 23. A pair of lines is represented by an equation $mx^2 - 6xy + 9y^2$. If the lines are co-incident, what is the value of m? a) 0 b)1 c)-1 d)4 24. What is the general equation of circle? a) $ax^2 + by^2 + 2gx + 2fy - c = 0$ b) $ax^2 + bv^2 + 2ax + 2fy + c = 0$ c) $x^2 + y^2 + gx + fy + c = 0$ d) $x^2 + y^2 + 2gx + 2fy + c = 0$ 25. Which of the following is the inverse of the matrix [2 5 1 3]? a) [2 - 5 - 13]a) [-215 - 3]b) [3 - 5 - 12]

PHYSICS [20 Marks]

d) [3 - 512]

26. Which one of the following physical quantity has the fundamental units; kg.m².s⁻²?

(a) Force (b) Pressure (c) Work done (d) Power

27. If a man can jump 1.5 m high on the surface of the earth then how much high can he jump on the lunar surface ?

(b) 9 m (a) 15 m (c) 3 m (d) 1.5 m

28. What will be the change in the gravitational force between two bodies when the distance between their center is made halved ?

(a) Force increases by two times

(b) Force decreases by two times

(c) Force increases by four times

(d) Force decreases by four times.

29. The acceleration due to gravity on the surface of the earth is g. If mass and radius of the earth both are made halved then what is the new value of acceleration due to gravity on the earth surface?

(b) 2g (c) 3g (d) 4g (a) g 30. Two stones of mass 2 kg & 4 kg are dropped from top of a tower together then which one will reach the ground earlier?

(a) Stone having mass 2 kg. (b) Stone having mass 4 kg.

(c) Both stone reach together. (d) They attract each other & do not fall.

- 31.On which law hydrometer is based on ?
 - (a) Newton's Law (b) Pascal's Law

(c) Archimedes' Law (d) Law of floatation

32. In the formula of liquid pressure; P=dgh, what the term 'd' indicates ?

- (b) Diameter (c) Distance (a) Depth (d) Density
- 33. If an object is immersed in liquid then which one of the following statement is correct about upthrust and weight of the body?
 - (a) Upthrust acts in upward direction and weight of the body acts in downward direction.
 - (b) Upthrust acts in downward direction and weight of the body acts in upward direction.
 - (c) Upthrust and weight of the body both acts in downward direction.
 - (d) Upthrust and weight of the body both acts in upward direction.

34.A ship going from sea to river has to displace more water to

- (a) change the buoyant force.
- (b) decrease the buoyant force.
- (c) maintain the same buoyant force.
- (d) increase the buoyant force.
- 35. The normal body temperature of a healthy person is 37°C. What is the corresponding value in Fahrenheit scale ?
 - (a) 96^{0} F (b) $96.8^{\circ}F$ (c) $98^{\circ}F$ (d) $98.6^{\circ}F$
- 36. What kind of thermometer has a thermistor at its end?

(a) Clinical thermometer (b) Infrared thermometer

(c) Digital thermometer (d) Laboratory thermometer

- 37. What are the lower fixed points of the temperature in celsius, fahrenheit and kelvin scales respectively? (a) 0° C, 0° F, 0° K
 - (b) 0°C, 32°F, 273°K

(c) 0°C, 180°F, 373°K	(d) 0°C, 212°F, 373°K			
38. How much heat energy is requir	red to boil the water of 1500 gm in			
10^{0} C at sea level ?				
(a) 63 KJ (b) 283.5 KJ	(c)567 KJ (d) 31.5 KJ			
39. Where should an object be place	ed in front of convex lens to have			
magnification of convex lens les	ss than 1?			
(a) Beyond 2F	(b) between F & 2F			
(c) Exactly at F	(d) between F & O			
40. The refractive index of glycerin	e is 1.47, If speed of light in			
vacuum is 3 X 10^8 m/s then wha	t is the speed of light in glycerine ?			
(a) $1.24 \text{ X } 10^8 \text{m/s}$	(b) $1.5 \text{ X } 10^8 \text{m/s}$			
(c) $2.04 \text{ X} 10^8 \text{m/s}$	(d) 2.42 X 10 ⁸ m/s			
41. Absorption of which ray causes	hotness ?			
(a) I.R rays (b) U.V rays	(c) X-rays (d) Gamma rays			
42. What is the power of a concave	lens having focal length of 10 cm?			
(a) $0.1 D$ (b) $-0.1 D$	(c) $10 D$ (d) $-10 D$			
43.On which principle electromagn	iet is based on?			
(a) Magnetic effect of current	(b) Electromagnetic induction			
(c) Motor effect of current	(d) Mutual induction			
44. What is the full form of LED ?				
(a) Light emitting diode	(b) Light emitting device			
(c) Light emitting display	(d) Light emitting drone			
45. Which one of the following statement is incorrect about open				
universe ?				
(a) It expands forever.				
(b) Sum of triangle is more than	180°.			
(c) Density of the universe is les	ss than critical density.			

(d) Its gravity is not strong.

CHEMISTRY [20 Marks]

- 46. What is an isotope?
 - a) Atoms with the same number of protons but different neutrons
 - b) Atoms with the same number of electrons but different protons
 - c) Atoms with the same number of neutrons but different protons
 - d) Atoms with the same mass but different charges

- 47. Which property distinguishes a suspension from a solution?
 - a) Particles do not settle down
 - b) Particles are visible to the naked eye
 - c) It is transparent
 - d) It is homogeneous
- 48. Which of the following represents a polyatomic ion?

a) Na⁺ b) Cl⁻ c) NH₄⁺ d) H₂

- 49. How does the electronegativity of elements change as you move down a group?
 - a) It increases due to larger atomic size
 - b) It decreases due to increased distance from the nucleus
 - c) It remains constant
 - d) It depends on the period
- 50. Which factor would most likely increase the rate of the reaction between hydrogen peroxide and light?
 - a) Storing it in a dark container
 - b) Exposing it to sunlight
 - c) Decreasing the temperature
 - d) Reducing the concentration of hydrogen peroxide
- 51. What type of bond is found between carbon atoms in ethylene?
 - a) Double covalent bond
 - b) Double coordinate covalent bond
 - c) Triple coordinate covalent bond
 - d) Triple covalent bond
- 52. Which compound is used to keep tobacco moist and prevent fruit decay?
 - a) Methanol b) Ethanol c) Glycerol d) Ethylene
- 53. Which chemical pesticide is banned in Nepal due to its environmental persistence?

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a) Malathion b) DDT c) Dimethoate d) Cypermethrin
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- 54. What is the chemical formula of baking soda?
 - a) Na₂CO₃ b) NaHCO₃ c) CaCO₃ d) NaOH
- 55. Which metal is used to galvanize iron?a) Zincb) Copperc) Silverd) Aluminum

56. A student ac correct?	lds water to quick	c lime. Which of	oservation is			
a)The beaker	becomes cold	c) A gas is evo	lved			
b) Heat is pro	oduced	d) No reaction	occurs			
57. When dilute	sulfuric acid is po	oured on marble	chips, which gas is			
released?						
a) H ₂	b) O ₂	c) CO ₂	d) N2			
58. To test for hy	drogen gas, we u	ise:				
a) Glowing	splint	b) Burning spli	int			
c) Limewate	r	d) Moist red lit	tmus			
59. When metha	ine burns in air:					
a) Carbon a	nd water are prod	uced				
b) Carbon d	ioxide and water	are produced				
c) Carbon m	onoxide is forme	ed				
d) Ammonia	is released					
60. Which elem	ent is expected to	show the least i	reactivity among the			
halogens?			1\ 7 1'			
a) Fluorine	b) Chlorine	c)) Bromine	d) lodine			
61. Which of the	tollowing snows	the most metall $a > A $	1c character /			
a) Na	D) Mg fallowing alomar	C) Al	(0) S1			
02. which of the	b) Si	c) Mg	d) P			
63 Which was a	0) SI	of Mendeleev's r	u) I periodic table?			
a) No place fo	najor mintation o	of Mendeleev s p				
b) Inability to	explain isotones					
c) Incorrect or	rder of atomic nu	mbers				
d) All of the a	hove					
64 Which element violates the order in Mendeleev's table due to						
atomic mass r	nismatch?					
a) Ar and K b) Na and Mg c) H and He d) Zn and Cu						
65. Which pair shows opposite trends across a period?						
a) Atomic size and electronegativity						
b) Ionization	energy and elect	ronegativity				
c) Atomic nu	mber and atomic	size				
d) Valency an	nd metallic charae	cter				

BIOLOGY [20 Marks]

66.	66. Which kingdom includes organisms with prokaryotic cells?					
a) Protista b) Monera c) Fungi d) Plantae						
67.V	67. What is a characteristic of organisms in the kingdom Protista?					
a)	They are mult	icellular	b) They are unicellu	lar		
c)	They lack a ce	ell wall	d) They are saprotro	phic		
68.	What is the c	ell wall of algae	made of?			
	a) Chitin	b) Cellulose	c) Peptidoglycan	d) Silica		
69.	Which plants	are classified as	dioecious in Bryoph	yta?		
	a) Algae	b) Moss	c) Fern	d) Pinus		
70.	What is the d	ominant phase in	n the life cycle of pter	idophytes?		
	a) Gametophy	yte	b) Sporophyte			
	c) Zygote		d) Spore			
71.	Which of the	following is a cl	haracteristic of gymno	osperms?		
	a) They bear	flowers	b) They have naked	seeds		
	c) They have	fruits	d) They lack vascula	ar tissue		
72.	Why are fern	s classified unde	er Pteridophyta?			
	a) They have	flowers				
	b) They have vascular tissue and no seeds					
	c) They lack	chlorophyll				
	d) They have	naked seeds				
73.	What is a gen	ne?				
	a) A segment of RNA					
	b) A segment of DNA that codes for a specific trait					
	c) A type of a	chromosome				
	d) A protein	molecule				
74.	In a cross bet	ween two hetero	zygous tall plants (Tt)), what is the		
	probability of	f getting a tall of	fspring?			
	a) 25%	b) 50%	c) 75%	d) 100%		
75.I	f a mutation o	ccurs in a gamet	e, what is the likely o	utcome?		
	a) It affects o	nly the parent				
	b) It may be passed to the offspring					
	c) It changes the phenotype immediately					
d) It has no effect						
76.V	Which phylum	includes animal	s with stinging cells?			
	a) Coelentera	ita	b) Platyhelminthes			
	c) Annelida		d) Arthropoda			

77.	Which class of vertebrates has	s a two-chamber	red heart?
	a) Amphibia b) Reptilia	c) Pisces	d) Aves
78.	Radial symmetry is found in:		
	a) Starfish b) Earthworm	c) Cockroach	d) Snake
79.	Why are bryophytes called a	mphibian plants	?
	a) They live in water.	b) They need	water for fertilization
	c) They have vascular tissues	s. d) They reprod	duce by spores.
80.	How does the presence of a 1	notochord in cho	ordates indicate
	evolutionary advancement?		
	a) It is a primitive feature.	1 1 . 1.	
	b) It is replaced by a vertebra	al column in hig	her organisms.
	c) It is absent in vertebrates.		
01	d) It and in photosynthesis.	aification in tor	onomu?
01.	a) Kingdom b) Genus	c) Species	d) Phylum
82	What is the major difference	between Moner	a) I Hynum
02.	a) Cell wall structure	b) Presence of	
	c) Mode of reproduction	d) Type of nut	trition
83.	A scientist discovers an orga	nism with cell w	valls but no
001	chlorophyll. Where is it likel	v classified?	
	a) Animalia b) Plantae	c) Fungi	d) Protista
84.	What is the full form of DNA	?	,
	a) Deoxyribose Nucleic Acid	b) Deoxyribor	nucleic Acid
	c) Double Helix Nucleic Aci	d d) Deoxygena	ted Nucleic Acid
85.	What are the alternate forms	of a gene called	!?
	a) Codons b) Traits	c) Alleles	d) Genotypes
	ENGLISH [[15 Marks]	
86.	Neither the teacher nor the s	tudents pr	epared for the
	sudden quiz.		1
07	a. was b. were	C. 1S	d. are
87.	By the time the nost arrived,	the guests	dinner.
	a. nave finished	D. nad finished	l uishad
80	U. IIIIISIICU He ride a biovala when	u. will have fit	msneu
00.	a can b could	o will	d should
		C. WIII	a. should

89. If you _____ me earlier, I would have helped you.a. toldb. had toldc. will telld. have told

90.	In spite of little free time, he finished the project on			e project on
	schedule.			
	a. have	b. having	c. had	d. to have
91.	"She was so r	neticulous in her	painting that ev	ven the smallest
	details were p	erfect." The wor	rd 'meticulous' 1	most nearly means:
	a. sloppy	b. careful	c. hurried	d. talented
92.	He gave a	answer to the	question, which	left the audience
	more confuse	d.		
	a. direct	b. cryptic	c. eloquent	d. succinct
93.	Which of the	following is close	sest in meaning t	o "abundant"?
	a. scarce	b. plentiful	c. adequate	d. limited
94.	He finally	the bullet and	confessed his m	nistake to his
	friend.			
	a. bit	b. took	c. swallowed	d. faced
95.	He was know	n for his m	anner, always ca	alming others with
	his gentle wor	rds.		
	a. belligerent		b. tranquil	
	c. obnoxious		d. authoritative	
96.	If I the in	vitation, I would	l have joined the	e event.
	a. receives		b. received	
	c. had receive	ed	d. was receiving	g

Reading Comprehension

In the digital age, social media has become an integral part of daily life, especially for young people. Increasingly, platforms like Instagram, Twitter, and TikTok allow users to share news, opinions, and personal stories in real-time. On one hand, social media can foster connections and awareness: friends from around the globe can stay in touch, and important social issues can gain attention quickly. For example, a single hashtag or viral post may inspire people worldwide to donate to charity or organize peaceful protests.

However, this interconnectedness also has drawbacks. The constant stream of information can lead to anxiety and feelings of inadequacy as users compare themselves to others' curated lives. Moreover, misinformation can spread just as rapidly, sometimes causing confusion and fear. Additionally, the online environment can become an echo chamber where people only see opinions similar to their own, limiting exposure to different perspectives. Whether as a force for community building or as a source of distraction, social media undeniably shapes modern communication. Understanding its influence is crucial for young adults navigating this landscape, encouraging them to use it responsibly and critically.

97. Which of the following best describes an example of social media's positive impact, as mentioned in the passage?

a. Encouraging people to donate to charity through a viral hashtag.

- b. Causing anxiety from an overload of information.
- c. Creating online echo chambers of similar opinions.
- d. Helping spread misinformation quickly.
- 98. According to the passage, what can lead to anxiety and feelings of inadequacy for social media users?
 - a. The need to organize online events.
 - b. The constant stream of information and comparison to others' curated lives.
 - c. The lack of viral content in their feeds.
 - d. The global connections with distant friends.
- 99. What does the term "echo chamber" most nearly refer to in the context of this passage?
 - a. A digital space that broadcasts sounds and music.
 - b. An online environment where only similar opinions are shared and reinforced.
 - c. A device that repeats the same message on social media.
 - d. A social media group that encourages hearing diverse views.
- 100. In paragraph 2, what is the meaning of the word "curated" as used in the phrase "others' curated lives"?
 - a. Carefully selected or presented
 - b. Random and disorganized
 - c. Untrue or fabricated
 - d. Hidden from public view

All the Best



Entrance Model Questions-2082 (6) Faculty of Science

			55 WIAI NS. 40
se the best option	n and cross-mark t	he right box av	vailable in the
er sheet.		C	
Γ	MATHEMATICS	S [25 Marks]	
If $154 \times 18 = 277$	72, then 27. 72÷1.	8 =?	
a) 1.54	b) 1.44	c) 15.4	d) 1.45
What number's	15% equals Rs. 60))?	
a) Rs 200	b) Rs 300	c) Rs 400	d) Rs 500
If the ratio of c	ost price and profi	it is 5:1, and th	e selling price is Rs 180
What is the cos	t price?		
a.) Rs 200	b. Rs 150	c. Rs 160	d. None
The ratio of war	ter and milk in a 3	0 liter mixture	is 7:3. Find the quantity
of water to be ad	lded to the mixtur	e in order to m	ake this ratio 6:1.
a) 30	b) 32	c) 33	d) 35
The average of number?	5 consecutive eve	n numbers is 3	0. What is the largest
a) 32	b) 34	c) 36	d) 38
The sum of mon	ey at the rate of 5	% per annum v	vill yield an interest of
Rs. 120 in 3 ye	ars is	-	
a) 1200	b) 900	c) 1000	d) 800
How many prop	er subsets can be f	formed from a	set with 3 elements?
a) 3	b. 6	c. 7	d. 8
The price of a co	omputer is Rs 100	(say). If it depr	eciates by 10% per
annum compour	nded annually, what	at will be it's p	orice after 2 years?
a) Rs 80	b. Rs 81	c. Rs 79	d.Rs 82
	r sheet. If $154 \times 18 = 27'$ a) 1.54 What number's T a) Rs 200 If the ratio of c What is the cos a.) Rs 200 The ratio of wator of water to be ac a) 30 The average of number? a) 32 The sum of mon Rs. 120 in 3 ye a) 1200 How many prop a) 3 The price of a co annum compour a) Rs 80	MATHEMATICSMATHEMATICS If $154 \times 18 = 2772$, then $27.72 \div 1$.a) 1.54 b) 1.44 What number's 15% equals Rs. 60 a) 1.54 b) Rs 200 b) Rs 300 If the ratio of cost price and profitWhat is the cost price?a.) Rs 200 b. Rs 150 The ratio of water and milk in a 3of water to be added to the mixturea) 30 b) 32 The average of 5 consecutive evenumber?a) 32 b) 34 The sum of money at the rate of 5Rs. 120 in 3 years isa) 1200 b) 900 How many proper subsets can be 1a) 3 b. 6 The price of a computer is Rs 100 annum compounded annually, wha) Rs 80 b. Rs 81	MATHEMATICS [25 Marks]MATHEMATICS [25 Marks] If $154 \times 18 = 2772$, then $27.72 \div 1.8 = ?$ a) 1.54 b) 1.44 c) 15.4 What number's 15% equals Rs. 60) ?a) 1.54 b) Rs 200 b) Rs 300 c) Rs 400 If the ratio of cost price and profit is $5:1$, and thWhat is the cost price?a.) Rs 200 b. Rs 150 c. Rs 160 The ratio of water and milk in a 30 liter mixtureof water to be added to the mixture in order to ma) 30 b) 32 c) 33 The average of 5 consecutive even numbers is 3number?a) 32 b) 34 c) 36 The sum of money at the rate of 5% per annum vRs. 120 b) 900 c) 1000 How many proper subsets can be formed from aa) 3 b. 6 c. 7 The price of a computer is Rs $100(say)$. If it deprannum compounded annually, what will be it's pa) Rs 80 b. Rs 81 c. Rs 79

9.	The buying rate and s	elling rate of 1 US dollar are Rs 139 and Rs 140
	respectively. How mu	ch Nepali rupees can be exchanged with 1000 US
	dollars?	
	D 100 000	D 140,000

a) Rs 139,000	c) Rs 140,000
b) Rs 139.500	d) Neither of these

10. What is the ratio of volume of a pyramid and cube having same base area and vertical height?

a) 1:2 b. 1:3 c. 1:4 d. 3:4

11. An exterior angle of a triangle is 105° and its two interior opposite angles are equal. Each of these equal angles is:

a) 37 $\frac{1}{2}^{\circ}$ b) 72 $\frac{1}{2}^{\circ}$ c) 75° d) 52 $\frac{1}{2}^{\circ}$ 12. What is the HCF of the expressions $(a^3 - b^3)$, $(a^2 + ab + b^3)$ $(a^{4} + a^{2}b^{2} + b^{4})?$

- a) $(a^2 ab + b^2)$
- b) $(a^4 + a^2b^2 + b^4)$
- c) (a-b)

d)
$$(a^2 + ab + b^2)$$

13. What is the value of $\sqrt[4]{\sqrt{256}}$? a) 2 b) 4 c) 6

- 14. Which of the following statement is true?
 - a) Equal chords are equidistant from the circumference.
 - b) Perpendicular bisector of the chord passes through the center of the circle.

d) 8

- c) Angle at a center of a circle is two right angles.
- d) Inscribed angle is double of the central angle.
- 15. What is the probability of getting a faced card or an Ace when a card is drawn from a well-shuffled deck of 52 cards?

b) 2/13 c) 3/13 d) 4/13 a) 1/13

- 16. What is the necessary condition for a function to have it's inverse?
 - a) One to one function
 - b) Many to one function
 - c) One to one and onto function
 - d) One to one and into function

17. Which term of the sequence $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$, is 32? a)7th term b. 8th term c. 10th term d. 9th term

- 18. Which of the given lines passes through the point (-3,2)?
 - a) 2x = 3y
 - b) 2x 3y = 5
 - c) 2x 3y + 12 = 0
 - d) None
- 19. The length of a rectangle is four times the breadth. If the minimum perimeter of the rectangle is 160 cm, then
 - a) breadth > 16 cm
 - b) length < 20 cm
 - c) breadth > 16 cm
 - d) length ≤ 20 cm
- 20. Two vectors $(3\vec{i} + 2j)$ and $(a\vec{i} 3j)$ are orthogonal. What should be the value of a?

- 21. In a 90°, 60°, 30° triangle, what is the ratio of length of perpendicular and hypotenuse with reference to the angle of 30°? b)1:3 d)3:121. a) 1:2 c)2:1
- 22. Which of the following formulae is not correct?
 - a) Sin2a = 2SinaCosa
 - b) $\cos 2a = 1 + 2\sin^2 a$
 - c) Sin(A+B) = SinA.CosB+CosA.SinB
 - d) Sin (A-B) = SinA.CosB-CosA.SinB
- 23. What is the acute between the lines *having slopes 2 and -3?* c)60° a) 30° b)45° d)90°
- 24. What is the equation of the circle having center at (1,0) and having radius 3 units?
 - a) $x^2 + 2x + y^2 + 8 = 0$
 - b) $x^2 + 2x + y^2 8 = 0$
 - c) $x^2 2x + y^2 + 8 = 0$
 - d) $x^2 2x + v^2 8 = 0$

25. Identify is the transformation represented by the matrix

- a) Reflection by x- axis
- b) Reflection by y-axis
- c) Reflection by the line y=x
- d) Reflection by the line y=-x

26. Which one of the following physical quantity has the fundamental units; kg.m⁻¹.s⁻²? (c) Work done (d) Power (a) Force (b) Pressure 27.If mass of an object is 60 Kg on the surface of the earth then what will be its mass on the surface of the moon? (a) 60 Kg (b) 10 Kg (c) 6 Kg (d) 0 Kg28. What will be the change in the gravitational force between two bodies when the distance between their center is made one-third ? (a) Force increases by three times. (b) Force decreases by three times. (c) Force increases by nine times. (d) Force decreases by nine times 29. The acceleration due to gravity on the surface of the earth is g. If mass and radius of the earth both are made one-fourth then what is the new value of acceleration due to gravity on the earth surface? (a) g (b) 2g (c) 3g (d) 4g 30. A stone is dropped from the top of a tower 20 m height then how much time will it take to strike the ground ? (a) 2 Seconds (b) 4 Seconds (c) 6 Seconds (d) 8 Seconds 31.If weight of a stone inside water is 9 N & weight of the displaced water is 2 N then what is the actual weight of the stone in air ? (a) 11 Newton (b) 9 Newton (c) 7 Newton (d) 2 Newton 32.In the formula of liquid pressure; P=dgh, what the term 'g' indicates? (a) Gravity (b) Gravitational constant (c) Acceleration due to gravity (d) Gravitation 33. Why egg floats on salt water but sinks on pure water? (a) Temperature of salt water is more than that of pure water. (b) Temperature of salt water is less than that of pure water. (c) Density of salt water is more than that of pure water. (d) Density of salt water is less than that of pure water. 34. A ship going from river to sea has to displace less water to (a) change the buoyant force. (b) decrease the buoyant force. (c) maintain the same buoyant force. (d) increase the buoyant force.

35. The normal body temperature of	of a healthy person is 37°C. What is
the corresponding value in kelv	in scale ?
(a) 207 K (b) 210 K	(c) 307 K (d) 310 K
36. Which type of thermometer has	both mercury & alcohol as
thermometric liquid?	
(a) Clinical thermometer	(b) Infrared thermometer
(c) Digital thermometer	(d)Maximum-Minimum
thermometer	
37.What are the upper fixed point	s of the temperature in celsius,
fahrenheit and kelvin scales res	pectively ?
(a) 100°C, 212°F, 373°K	(b) 180°C, 312°F, 273°K
(c) 100°C, 212°F, 273°K	(d) 180°C, 312°F, 373°K
38. Which instrument is used to me	easure amount of heat energy?
(a) Thermometer	(b) Barometer
(c) Calorimeter	(d)Seismometer
39. Where should an object be place	ced in front of convex lens to have
magnification equals to 1?	
(a) At 2F	(b) between F & 2F
(c) Exactly at F	(d) between F & O
40. The refractive index of glass is	1.5, If speed of light in vacuum is 3
X 10^8 m/s then what is the speed	d of light in glass ?
(a) $1.24 \text{ X} 10^8 \text{m/s}$	(b) $1.5 \times 10^8 \text{m/s}$
(c) $2X \ 10^8 \text{m/s}$	(d) $2.42 \times 10^8 \text{m/s}$
41. Which rays are present below	visible light ?
(a) I.R rays	(b) U.V rays
(c) X-rays	(d) Gamma rays
42. What is the focal length of a co	ncave lens having power 10 D?
(a) 0.1 Cm (b) -0.1 Cm	(c) 10 Cm (d) -10 Cm
43. On which principle generator 1	s based on?
(a) Magnetic effect of current	
(b) Electromagnetic induction	
(c) Motor effect of current	
(d) Mutual induction	
44. what is the full form of C.F.L	
(a) Common Fluorescent Lamp	(b) Crystal Fluid Lamp
(c) Compact Fluorescent Lamp	(a) Cathode Fluid Lamp

- 45. Which theory is considered as the most realistic theory about origin of the universe?
 - (a) Big bang theory

(c) Heliocentric theory

(b) Geocentric theory(d) Nebular theory

	CHEMISTRY	Y [20 Marks]	
46.Which metho	d is used to sep	arate a mixture	of two solids where one
sublimes?			
a) Sublimation	on	b) Evaporat	ion
c) Filtration		d) Crystalli	zation
47.What is the m	olecular mass o	of CO ₂ ? (Atom	ic masses: $C = 12 u, O =$
16 u)			
a) 28	b) 44	c) 32	d) 60
48.Which model	of the atom pro	oposed that elec	ctrons move in fixed
orbits around	the nucleus?		
a) Thomson	's plum pudding	g model	
b) Rutherfor	d's nuclear mo	del	
c) Bohr's pla	anetary model		
d) Dalton's a	atomic model		
49. Which one	gives H+ ions in	aqueous soluti	on?
a) NaOH	b) Na ₂ CO ₃	c) KCl	d) HCl
50. Which of th	e following is a	saturated hydr	ocarbon?
a) Ethane	b) Ethyne	c) Ethene	d) Benzene
51. Which of th	e following is N	NOT a property	of covalent
compounds	?		
a) Low mel	ting point	b) Poor con	ductor
c) High boi	ling point	d) Insoluble	e in water
52. When an ac	id is mixed with	h water:	
a) Temperat	ture decreases	b) Hydroge	n ions are released
c) pH increa	ses	d) Hydroxid	le ions are formed
53. A base react	ts with a non-m	etallic oxide to	form:
a) Salt only		b) Salt and ac	cid
c) Base and	water	d) Salt and w	ater
54. The mass re	mains conserve	ed in a chemica	l reaction because:
a) Products	are heavier		
b) New ator	ns are formed		
c) Molecule	s vanish		

	d) Atoms are rearranged, not	destroyed	
55.	Why do ionic compounds cor	nduct electricity in	molten state?
	a) Free protons present	b) Electrons are	delocalized
	c) Ions are mobile	d) Covalent bond	ls break
56.	A hydrocarbon with molecula	ur formula C₄H₀ is	likely to be:
	a) Alkane b) Alkyne	c) Alkene	d) Alcohol
57.	Which pair shows the same m	nolecular formula	but different
	structural formula?		
	a) Butane and Isobutane	b) Ethane and Et	hene
	c) Ethyne and Propene	d) Methane and	Ethane
58.	The main use of acetylene is i	in:	
	a) Welding	b) Fuel for cook	ing
	c) Solvent	d) Perfume maki	ng
59.	The mass of an electron is ap	proximately:	0
• • •	a) 1 amu	b) 1/1836 of a pr	oton
	c) Equal to a neutron	d) Negligible con	mpared to neutron
60.	In metallic bonding, the valer	ice electrons are:	1
	a) Shared between two atoms	b) Transferred	to non-metals
	c) Delocalized and move free	ly d) Lost permar	nently
61.	Ammonia is prepared in the la	ab by heating:	2
	a) Ammonium nitrate b) U	Urea and water	
	c) Ammonia and water d) A	Ammonium chlori	de and slaked lime
62.	Which pair of gases is collected	ed by downward o	lisplacement of
	water?	5	•
	a) CO_2 and NH_3	b) O_2 and H_2	
	c) NH_3 and CO_2	d) N ₂ and NH ₃	
63.	Which one is not used in the l	ab preparation of	oxygen?
	a) Potassium chlorate	b) Manganese di	oxide
	c) Hydrogen peroxide	d) Sodium chlor	ide
64.	Which element is expected to t	form the most acid	dic oxide?
	a) Na b) Mg	c) Cl	d) Al
65.	A metal reacts vigorously with	water and forms	a strong alkaline
s	olution. It is likely from:		C
	a) Group 2 b) Group 1	c) Group 13	d) Group 17
		•	~

BIOLOGY [20 Marks]

66. How do platelets prevent excessive blood loss? b. By forming fibrin clot a. By swelling c. By producing hemoglobin d. By closing blood vessels 67. Compare the structure and function of arteries and veins. a. Arteries are wider b. Veins are thicker c. Arteries carry blood under pressure; veins have valves d. Veins carry oxygenated blood 68. Why does a person become pale in severe anemia? a. Due to low WBC b. Due to low plasma c. Due to low hemoglobin in RBCs d. Due to high sugar 69. Describe the flow of blood through the heart starting from vena cava. a. RA \rightarrow RV Pulmonary vein LV Aorta LA b. RA RV Pulmonary artery Lungs LA LV Aorta c. RA LA RV LV Aorta d. RA Pulmonary vein LA Aorta 70. How does septum aid in the efficiency of the human heart? a. Prevents oxygen from escaping b. Separates oxygenated and deoxygenated blood c. Pumps blood d. Filters blood 71. Which blood vessel has valves to prevent backflow of blood? a. Arteries b. Capillaries c. Veins d. Aorta 72. Why are capillaries suitable for exchange of materials? a. They are thick b. They have large diameter c. They are thin-walled and narrow d. They carry lymph 73. Why are viruses not placed in any kingdom? a. They are too small b. They are not cellular c. They are unicellular d. They reproduce only sexually

74.	Which charac	teristic will help	you differentiate	between
	amphibians a	nd reptiles?		
	a. Laying of e	eggs		
	b. Cold-blood	led nature		
	c. Presence of	t moist skin		
75	d. Four-legge	a body		
75.	plants and and	imals?	v organism that sh	lows traits of both
	a. Fungi	b. Animalia	c. Protista	d. Plantae
76.	What kingdo	m would an org	anism belong to if	f it is autotrophic,
	eukaryotic, ai	nd has vascular t	issue?	
	a. Monera	b. Plantae	c. Protista	d. Fungi
77.	A biologist fi	nds an organism	with pseudopodi	a and no
	chloroplast. V	Vhich kingdom i	is most appropriat	e?
70	a. Protista	b. Monera	c. Animalia	d. Plantae
/8.	Why is Mend	el's work signifi	icant?	
	a. He used sta	d avalution	b. He discovered	DNA
70	c. He propose	d evolution	a. He described	mutation
79.	which of the	following best e	xplains homozyg	ous condition?
	a. Two difference	ent and one reco	acciva cana	
	c. Identical al	lant and one rece	ssive gene	
	d No alleles	leles		
80	Why are X-li	nked traits more	common in male	\$?
00.	a Males have	e more chromoso	mes	
	b. Males inhe	rit only one X cl	hromosome	
	c. Females su	ppress recessive	traits	
	d. Y chromos	ome promotes a	ll traits	
81.	If phloem is c	lamaged in a pla	nt, what is affecte	ed?
	a. Water trans	sport	b. Food transpor	t
	c. Gas exchar	nged	d. Photosynthesi	S
82.	A blockage in	n a coronary arte	ry can lead to:	
	a. Brain dama	nge	b. Heart attack	
	c. Kidney fail	ure	d. Lung infection	1
83.	Why are arter	ries thick-walled	and elastic?	
	a. To store ox	tygen	b. To withstand	high pressure
	c. To aid dige	estion	d. To prevent ba	ckflow

84.	. How do valves in veins help circulation?		
	a. Increase pressure	b. Prevent blood loss	
	c. Prevent backflow	d. Transport oxygen	
85.	Which brain part is indirectly	involved in reflex actions like	
	coughing or sneezing?		
	a. Cerebrum	b. Medulla oblongata	
	c. Cerebellum	d. Spinal cord	

ENGLISH [15 Marks]

86.	Each of the playe	ers respons	sible for his own	equipment.
	a. are	b. were	c. is	d. have
87.	She said she	_ the book twice	e already.	
	a. read	b. has read	c. had read	d. reads
88.	You see a d	loctor if the pair	n continues.	
	a. might	b. should	c. can	d. would
89.	If he studies hard	l, he pass t	he exam.	
	a. will	b. would	c. shall	d. had
90.	I look forward to	o from you	soon.	
	a. hear	b. heard	c. hearing	d. hears
91.	The manager wa	s known for his	astute decision-r	naking. 'Astute'
	most nearly mea	ns:		
	a. foolish	b. clever	c. slow	d. stubborn
92.	Which word is o	pposite in mean	ing to 'optimistic	'?
	a. cheerful	b. gloomy	c. positive	d. hopeful
93.	His comments w	ere so that	no one took the	m seriously.
	a. sarcastic	b. profound	c. logical	d. witty
94.	She always turns	a blind eye to p	oroblems, meanir	ng she:
	a. ignores the	m	b. solves them	
	c. understand	s them	d. highlights the	em
95.	10. The witness	gave a acc	ount of the incid	ent.
	a. vague	b. vivid	c. biased	d. dull

Read the paragraphs and answer the following questions Many people assume that success is the result of natural talent, but research shows that effort and perseverance play a bigger role. Psychologist Angela Duckworth coined the term 'grit' to describe a person's passion and sustained effort toward long-term goals. Grit involves maintaining motivation even when faced with challenges and failures.

Studies reveal that students with high levels of grit perform better academically and are more likely to achieve their goals. Unlike intelligence, grit can be developed over time through experience, encouragement, and self-discipline. Cultivating grit means not giving up after a setback and continuing to work diligently despite difficulties.

96. What is 'grit' as described in the passage?

- a. A type of intelligence
- b. Passion and perseverance for long-term goals
- c. The ability to memorize quickly
- d. Talent for academics
- 97. According to the passage, what contributes most to success?
 - a. Natural talent
 - b. Family background
 - c. Hard work and determination
 - d. Luck
- 98. What does the passage suggest about grit?
 - a. It is fixed and cannot be changed
 - b. It is a natural talent
 - c. It can be developed over time
 - d. It is only useful for students
- 99. What is a synonym for 'setback' as used in the passage?
 - a. Failure
 - b. Opportunity
 - c Breakthrough
 - d. Achievement

100. What is the main idea of the passage?

- a. Grit is more important than natural talent in achieving success
- b. Intelligence determines all success
- c. Success is impossible without talent
- d. Grit is a genetic trait

All the Best



Time: 2 HrsFull Marks: 100Pass Marks: 40

Choose the best option and cross-mark the right box available in the answer sheet.

MATHEMATICS [25 Marks]

1. Out of 120 en are married an females have	nployees in a com nd half of the mar babies?	pany, one-third a ried females have	are female. 1/5 of the females e a baby. How many married
a) 4	b) 5	c) 3	d) 6
2. If an item is s	old at Rs 960 afte	r 4% loss, what s	should be the selling price
with 20% pro	ofit?		
a) Rs 1180	b) Rs 1200	c) Rs 1320	d) Rs 1080
3. The ratio of c	urrent age of fathe	er and son is 5:2.	After 5 years, the ratio of
their age will	be 11:5. What is t	the present age o	f son?
a) 15 years	b)18 years	c)20 years	d)25 years
4. If 6 lemons a	are bought for Rs	1, how many len	nons should be sold for Rs 1
to gain a pro	ofit of 20%?		
a) 4	b) 5	c) 7	d)8
5. What is the a	average of first 25	odd numbers?	
a) 21	b) 23 c)2	5	d)26
6. The time and	d rate of simple in	terest of Rs 2000) are same. If Rs 980 is paid
as interest, f	ind the rate of inte	erest.	
a) 6% b) 7%	c)8%	d)9%
7. 40 people like	coffee while 60 pe	eople like tea onl	y. 20 people like both
drinks while 10) people prefer no	ne. How many p	eople like at most one
drink?			

a) 100 b)90 c)110 d)130

8. The ratio of initial price of car and its price after 2 years is 16:9. Calculate the rate of depreciation?

```
a) 10%
             b)15%
                            c) 25%
                                         d) 30%
```

9. The buying rate and selling rate of 1 US dollar are Rs 139 and Rs 140 respectively. How much Nepali rupees can be exchanged with 1000 US dollars?

a) Rs 139,000 b) Rs 140,000 c) Rs 139,500 d) Rs 13,90,000

- 10. The perimeter of base of a pyramid is 40 cm and vertical height is 12 cm. What is the area of triangular faces of pyramid?
 - b) 260 sq. cm a) 160 sq. cm
 - c) 360 sq. cm d) 480 sq. cm

11. In the figure below, lines l, k and are parallel. What is the value of y - x?



c) 90 a) 45 12. At 3:00 A.M. the temperature was 13° below zero. By noon it had risen to 32°. What was the average hourly increase in temperature?

d) 135

a) 19/9 degrees b) 19/6 degrees

b) 60

d) 7.5 degrees c) 5 degrees

13. If (7^a) (7^b) = $\frac{7^{c}}{7^{d}}$, what is *d* in terms of *a*, *b*, and *c*?

- b) *c a b* a) $\frac{c}{ab}$ c) a + b - cd) *c* – *ab*
- 14. If the radius of a circle is increased by 10%, by what percent will it's area increase?

a) 10% b) 20% c) $10\pi\%$ d) 21%

15. A dice is rolled and a card is drawn from a deck of 52 cards. What is the probability of getting 3 on a dice and a red card?

a) 1/8	b)1/12	c)2/3	d)1/3
,	,	,	,

- 16. Which of the following composite functions is an identity function?
 - a) $f0f^{-1}(x)$ b) $(f0f)^{-1}(x)$ c) f0f(x) d) $f0f(\frac{1}{x})$

17. Which of the following does not exhibit the property of geometric sequence?

- a) Population growth
- b) Compound amount for successive years
- c) Radioactive decay
- d) Filling water from the tap
- 18. By what ratio does the centroid divide the median drawn from the vertex to the base of the triangle?
 - a) 2:1 b) 1:2 c) 1:3 d) 3:1

19. If the half plane with the boundary 2x-3y = 6 contains origin, how is the inequality represented?

- a) $2x 3y \le -6$ b) $2x - 3y \ge -6$ c) $2x - 3y \le 6$ d) $2x - 3y \ge 6$
- 20. If the wo vectors (*a*, *m*) and (*p*, *m*) are perpendicular to each other, which of the following is true?
 - a) $ap m^2 = 0$ b) am + pm = 0
 - c) $ap + m^2 = 0$ d) am pm = 0
- 21. If $1 + \cos 2A = 0$, what is the value of $\sin \frac{2A}{3}$?
 - a) 0 b) $\frac{\sqrt{3}}{2}$ c)- $\frac{1}{2}$ d) None
- 22. What is the value of sin 1650?

a)
$$\frac{1}{\sqrt{2}}$$
 b) $\frac{1}{\sqrt{2}}$ c)-1/2 d) $-\frac{1}{\sqrt{2}}$

23. The single equation of pair of lines passing through origin and perpendicular to the lines represented by $ax^2 + 2hxy + by^2 = 0$ is:

a)
$$ax^2 + 2hxy + by^2 = 0$$

b)
$$ax^2 + 2hxy - by^2 = 0$$

c) $ax^2 - 2hxy + by^2 = 0$

d)
$$bx^2 - 2hxy + ay^2 = 0$$

24. The radius of a circle is 5 units and touches the both-axis. What should be the center of the circle?

a) (5,2) b) (-5,2) c) (5,5) d) (2,5)
25. If the matrix
$$\begin{bmatrix} 1 & 3\\ x^2 & 27 \end{bmatrix}$$
 is a singular matrix, what is the value of x?
a) 3 b)-3

c) Neither of the two d) Both a and b

PHYSICS [20 Marks]

- 26. Which one of the following physical quantity has the fundamental units; kg.m².s⁻³?
- (a) Force(b) Pressure(c) Work done(d) Power27. If a man can lift 100 Kg mass on the surface of the earth then how much mass can he lift on the lunar surface ?
- (a) 100Kg
 (b) 163 Kg
 (c) 600 Kg
 (d) 980 Kg
 28. What will be the change in the gravitational force between two bodies when distance between their center is made one-fourth ?
 - (a) Force increases by four times
 - (b) Force decreases by four times .
 - (c) Force increases by sixteen times .
 - (d) Force decreases by sixteen times .
- 29. What is the correct S.I unit of universal Gravitational constant (G)?

(a)
$$\frac{N \cdot Kg}{m^2}$$
 (b) $\frac{N \cdot m^2}{Kg^2}$ (c) $\frac{N \cdot Kg^2}{m^2}$ (d) $\frac{N \cdot m}{s}$

- 30. If a coin & feather are dropped from same height on the lunar surface together then which one will reach the ground earlier ?
 - (a) Coin (b) Both coin & feather reach together.
 - (c) Feather (d) They attract each other & do not fall.
- 31. A ship floats on water because of _____
 - (a) the ship is made of light weight materials.
 - (b) the ship is hollow.
 - (c) the weight of the ship is less than buoyant force.
 - (d) the ship is supported by seafloor.
- 32. Which one of the following factor does not affect on the value of pressure exerted by liquid ?
 - (a) Diameter of vessel (b) Height of liquid
 - (c) Acceleration due to gravity (d) Density of liquid
- 33. Why ship can carry more load in sea water than in river water?
 - (a) Temperature of sea water is more than that of river water.
 - (b) Temperature of sea water is less than that of river water
 - (c) Density of sea water is more than that of river water.
 - (d) Density of sea water is less than that of river water.
- 34. Ram is trying to lift a load of 500 Newton by placing it on small piston of a hydraulic machine. Which one of the following suggestion helps ram to lift the load easily ?

- (a) Apply large amount of effort.
- (b) Keep the load in large piston.
- (c) Fill the hydraulic machine completely by liquid .
- (d) Make the machine airtight .
- 35. The normal human body temperature of a healthy person in celcius scale is
 - (a) 30^{0} C (b) 37^{0} C (c) 90^{0} C (d) 98.6^{0} C
- 36. Which kind of thermometer measures temperature of a body without coming in contact with the body ?

(a) Clinical thermometer (b) Infrared thermometer

- (c) Digital thermometer (d) Laboratory thermometer
- 37. Which of the following is an effect of high specific heat capacity ?
 - (a) Objects heat up quickly.
 - (b) Objects cool down quickly.
 - (c) Objects do not absorb heat.
 - (d) Objects retain heat for longer periods.
- 38. What is the S.I unit of heat energy ?
 - (a) Celcius (b) Kelvin (c) Joule d) Calorine
- 39. If an object is placed between F & O infront of a convex lens then what is the nature of the image?
 - (a) Real, Inverted & Magnified
 - (b) Real, Inverted & Equal
 - (c) Virtual, Erect & Magnified
 - (d) Virtual, Erect & Diminished
- 40. During the process of dispersion of light through a prism, which colour is seen at the bottom?

(a) Indigo (b) Violet (c) Blue (d) Red

41. If the velocity of light in glass medium is 2×10^{8} m/s then what is the value of refractive index of glass ?

(a) 1	(b) 1.33	(c) 1.45	(d) 1.5

- 42. What is near point of normal human eye ? (a) 2.5 m (b) 25 m (c) 2.5 cm (d) 25 cm
- 43. Which device is used to convert electrical energy into mechanical energy ?

(a) Electric motor (b) Ger	nerator
----------------------------	---------

- d) Transformer
- 44. What is the full form of E.M.F?

(c) Inverter

- (a) Electro-magnetic field
- (b) Electro-magnetic force
- (c) Electro-motive field
- (d) Electro-motive force
- 45. Which one of the following statement is incorrect about closed universe ?
 - (a) It expands forever.
 - (b) Sum of triangle is less than 180° .
 - (c) Density of the universe is more than critical density.
 - (d) Its gravity is strong.

CHEMISTRY [20 Marks]

46.	What is a sub	stance that cann	ot be broken dow	n into simpler
	substances by	chemical mean	s called?	in moo simpror
	a) Mixture		b) Element	
	c) Compound	ļ	d) Solution	
47.	What is the te	chnique used to	separate two mise	cible liquids with
	different boili	ing points?		
	a) Fractional	distillation	b) Chromatograp	ohy
	c) Centrifugat	tion	d) Separating fur	nnel
48.	What is the cl	nemical formula	of Ammonium bi	icarbonate?
	a) NaHCo3	b) NH4CO3	c) NH4HCo3	d) NH4HCO3
49.	Which of thes	se metals would	not displace hydr	ogen from an
	acid?			
	a) Zinc	b) Copper	c) Magnesium	d) Calcium
50.	Which type of	f bonding is resp	ponsible for the ha	rdness of
	diamond?			
	a) Metallic	b) Ionic	c) Covalent	d) Hydrogen
51.	A student obs	serves that a met	al bends easily wi	thout breaking.
	This shows th	e metal is:		
	a) Ductile	b) Elastic	c) Brittle	d) Malleable
52.	Breaking bon	ds requires:		
	a) Release of	energy	b) No energy cha	ange
	c) Absorption	of energy	d) Catalyst prese	nce
53.	What is the p	urpose of activat	tion energy in a cl	nemical reaction?
	a) To cool do	wn the system	b) To prevent sid	le reactions

	c) To initiate the reaction	d) To absorb product heat		
54.	Which metal reacts with cold water?			
	a) Zinc b) Sodium	c) Copper d) Silver		
55.	Which gas is released when a	cids react with metals?		
	a) Oxygen	b) Hydrogen		
	c) Nitrogen	d) Carbon dioxide		
56.	What happens in oxidation?			
	a) Electrons are gained	b) Electrons are lost		
	c) Protons are shared	d) Neutrons are lost		
57.	What is the pH of a salt formed from a strong acid and strong			
	base?			
	a) Less than 7	b) More than 7		
	c) Around 7	d) Exactly 1		
58.	Which of the following is a basic salt?			
	a) Sodium chloride	b) Ammonium sulfate		
	c) Sodium carbonate	d) Potassium nitrate		
59.	Which of the following does	not affect the rate of reaction?		
	a) Surface area	b) Temperature		
	c) Mass of beaker	d) Concentration		
60.	A catalyst affects a reaction b	y:		
	a) Increasing activation energ	у		
	b) Providing more energy			
	c) Lowering activation energy	/		
	d) Raising pH			
61.	What is the term for the minin	num energy needed for a reaction to		
	occur?			
	a) Bond energy	b) Reaction threshold		
	c) Activation energy	d) Equilibrium constant		
62.	What is the shape of an s orbi	tal?		
	a) Dumbbell b) Spherical d	c) Cloverleaf d) Linear		
63.	Which principle states that ele	ectrons occupy the lowest energy		
	orbital available?			
	a) Pauli Exclusion Principle b	o) Hund's Rule		
	c) Aufbau Principle	1) Heisenberg Uncertainty Principle		
64.	Which of the following orbita	lls can be found in the second		
	energy level?			
	a) 1s b) 2p	c) 3d d) 4f		
65.	Which ion has the same electric	ron configuration as neon?		

a) Na ⁺	b) F-
c) O ^{2–}	d) All of the above

BIOLOGY [20 Marks]

66.	56. Mitochondria is known as the:			
	a) Brain of the cell	b) Powerhouse of the cell		
	c) Storage house	d) Control center	r Ans: B	
67.	Which of the following determines the sex of a child?			
	a) X chromosome of father	b) Y chromosome of father		
	c) X chromosome of mother	d) Y chromosome of mother		
68.	Example of renewable resour	ce is:		
	a) Coal b) Petroleum	c) Wind	d) Natural gas	
69.	Scientific name of human bei			
	a) Homo erectus	b) Homo sapiens	5	
	c) Homo habilis	d) Homo neanderthalensis		
70.	The lifespan of a drone bee is:			
	a) 2–3 days	b) Few weeks		
	c) Several years	d) 5 months	months	
71.	Which part of the human dig	estive system abso	orbs nutrients?	
	a) Stomach	b) Liver		
	c) Small intestine	d) Large intestin	e	
72.	Which of the following is an organ of the circulatory system?			
	a) Lungs b) Brain	c) Heart	d) Kidney	
73.	The branch of science dealing	g with classification	on is:	
	a) Anatomy b) Ecology	c) Taxonomy	d) Cytology	
74.	Which of the following is a d	ecomposer?		
	a) Cow b) Bacteria	c) Tree	d) Tiger	
75.	The life cycle of honeybee is an example of:			
	a) Incomplete metamorphosis b) Asexual reproduction			
	c) Complete metamorphosis	d) Budding		
76.	Which organ in the human body produces insulin?			
	a) liver b) Pancreas	c) Kidney	d) stomach	
77.	Which of the following is recessive trait?			
	a) Curly hair	b) Tongue rolling		

	c) Attached earlobes	d) Dimples			
78.	Chromosome is made up of protein &				
	a) Carbohydrate	b) Lipid			
	c) Gene	d) Hormone			
79.V	79. Which one of the following nitrogen base is not found in R.N.A.?				
a	b) Adenine b) Thymine	c) Cytosine d) Guanine			
80.	Human blood consists of	_ plasma & blood corpuscles.			
	a) 40% & 60% b) 45% &	55%			
	c) 50% & 50% d) 55% &	45%			
81.	Which one of the following is	responsible for clotting of blood?			
	a) Plasma b) Platelets c) W.B.C. d) R.B.C.			
82.	Which chamber of human hea	rt collects pure (oxygenated)			
	blood?				
	a) Left auricle	b) Left Ventricle			
	c) Right auricle	d) Right Ventricle			
83.	Blood pressure of normal hun	nan body is			
	a) 100 / 80 mm of Hg	b) 120/ 80 mm of Hg			
	c) 120/100 mm of Hg	d) 140/100 mm of Hg			
84.	Which one of the following g	as causes air pollution?			
	a) CO2 b) SO2	c) NO2 d) All of above			
85.	Which one of the following ne	ot the endangered animal in Nepal?			
	a) Red panda	b) Gharial			
	c) One horned rhino	d) Bald eagle			

ENGLISH [15 Marks]

86.	The news	quite shock	king.	
	a. are	b. were	c. is	d. have
87.	I him	since he moved	l to London.	
a. haven't seen			b. didn't see	
C	c. don't see		d. wasn't seeing	
88.	We g	to the beach if	the weather impro	oves.
	a. must	b. would	c. might	d. need
89.	If I y	ou, I would apol	logize.	
	a. am	b. were	c. was	d. be
90. She is interested in a new language.				
	a. learn	b. to learn	c. learned	d. learning
91.	Which wor	rd means the san	ne as 'elated' ?	
a. depressed b. excited c. bored d. calm 92. The instructions were so that no one understood them. b. ambiguous c. precise a. clear d. direct 93. What is the antonym of 'generous'? a. kind b. selfish c. thoughtful d. open-handed 94. He kept his cool during the debate, meaning he: a. lost control b. shouted angrily c. remained calm c. panicked 95. Her decision was based on _____ judgment. a wise d. hesitant a. rash c. narrow Read the paragraph and answer the following questions

Books have always been a valuable source of knowledge and imagination. Unlike digital screens, reading a physical book offers a tactile and immersive experience. Research shows that people often retain information better when they read from print rather than a screen. Additionally, reading enhances vocabulary, focus, and critical thinking. Despite the rise of digital media, many still prefer printed books for leisure reading. They provide a break from screen time and help reduce eye strain. While e-books are convenient, the traditional book continues to have a unique charm and enduring value.

96. According to the passage, what is one benefit of reading physical books?

- a. They are cheaper than e-books
- b. They improve typing speed
- c. They help retain information better
- d. They are easier to edit
- 97. What does the passage suggest about digital media?
 - a. It is always better than books
 - b. It has replaced physical books
 - c. It causes people to read more
 - d. It can lead to eye strain
- 98. What is the tone of the passage?
 - a. Critical of books
 - b. Neutral
 - c. Supportive of reading
 - d. Uninterested

99. The phrase 'tactile and immersive' most nearly means:

a. Noisy and bright

b. Boring and slow

c. Touch-based and deeply engaging

d. Visual and fast-paced

100. What is the main idea of the passage?

a. Digital reading is better than print reading

b. Printed books remain valuable and beneficial despite digital alternatives

c. E-books have replaced all printed books

d. People no longer enjoy reading

All the Best



Entrance Model Questions-2082 (8) Faculty of Science

Time: 2 hrs	Full Ma	orks: 100	Pass Marks: 40
Choose the best	option and cros	s-mark the right	box available in the
answer sheet.			
		TICC ISE Maril	L 1
1 A man sava	$\mathbf{MAIHEMA}$	nthly which is the	KS]
1. A man save	S KS. 27000 III0	onuny which is u	lifee-fifth of fils total
What amou	nt does he save	s?	
a) $R_s = 1500$	$(0, b) R_{s} = 18000$	0 c) Rs 2500	0 d) Rs 27000
2 40% of the	greater number	is equal to 60%	of the smaller number
their	Sieuter number	is equal to 0070	
sum is 50. v	what is the smal	ler number?	
a) 30	b)16	c) 20	d)40
3. If $a:b = 5:7$,	, and $c:d=2a:3b$,	, then ad:bc is?	,
a) 1:3	b) 2:3	c)3:2	d) 4:5
4. If Ram sold	an article for R	s. 1243 includin	g 13% VAT, he had 10
Profit. Wha	t is his profit an	nount?	
a) Rs. 100	b) Rs. 130	c) Rs. 90	d)Rs. 60
5. The average	e age of 5 sisters	s is 10 years. If t	he age of 4 sisters are
6, 9, 12, 13	, what is the age	of fifth one?	
a) 11	b)14	c)10	d)7
6. If Akshay v	vants to double	his investment a	t the rate of 10% p.a.
annual con	ipound interest,	for how many y	ears at least he needs to
invest his m	ioney?	20	1\0
a) 6	D)/	c)8	0)9
/. In an electro	on of a local lev	ei, 2500 votes w	ere secured by candidat
A, 5000 VO	es were secured	i by candidate B	and 50 votes were inva
the vote?	e oooo names n		w many people and not o
a) 500	b)450	c)400	d)350
u) 500	0 1750	0,400	u)550

8.	A motorbike is bough	ht for R	s. 2,00,0	00 and i	ts pric	e deprec	iates each	1
	year by 10%. Its value	le after 2	2 years v	will be:				
	a).Rs. 1,80,000				b) l	Rs. 1,62,	000	
	c).Rs. 1,45,800	d) None o	of above				
9.	The buying rate and	selling r	ate of 1	US doll	ar are	Rs 139 a	nd Rs 14	0
	respectively. How m	uch loss	will be	there w	hile ex	changing	g NRs.	
	1,40,000 into US dol	lar and	again ex	changin	g the c	lollars ba	ick into	
	Nepali rupees?							
	a) Rs 1,000 b) Rs 10	0,000 0	c) Rs 10	,500 č	l) Rs 1	4,000		
10.	If the volume of a cu	be is 60	$0m^3$, wh	at will b	e the	volume c	of pyramio	d
	of same height and b	ase?		0				
	a) 600 m ³ b)60 m ³	c ² 00	m^3 d)	300 m^3				
11.	What is the sum of ir	iterior a	ngles of	a hexag	on?			
	a) 360° b)450°	c)54	0°	d)720°			
12.	10 years ago the you	nger sis	ter was l	half the a	age of	the older	sister. A	t
	present, older sister 1	s 28 yea	ars old, v	what is the	ne age	of older	sister?	
12	a) 19 b) 14	C OX2)25	d)1	6			
13.	If $x^{\circ} = 1$, then what is	s U^?	_		1)	of chore	_	
11	a) 1 $D = D = D = D$	(C) In in do	ublad w) hot will	i)none		t 2 (aonaid	0.1
14.	the area of original of	$relo \Lambda$	ublea, w	nat will	De fis	new area	(consid	eı
	a) 2Δ b) 4Δ	litle A)	$(\Delta \Delta)$			d)64		
15	A dice is rolled 100 t	imes T	he result	ts were ·		u)0/1		
10	Event	1	2	3	4	5	6	
	No. of occurrence	15	30	10	20	12	13	
	What is the empirica	l proba	bility of	getting	3?			
	a) 0.5 b)0.2	- F	c)0.1	88	ď	0.12		
16.	Which of the followi	ng func	tions is a	an identi	ty fun	ction?		
	a) $f(x) = 0$ b) $g(x) = 0$	x) = 3x	c c)f(z)	x) = x	d);	f(x) = 2	2	
17.	A child started saving	g money	y in pigg	y bank.	He sta	rted from	m Rs. 1 iı	n
	the first day and he d	oubled	the amo	unt each	day.	How mu	ch money	Y
	would be there in his	piggy t	oank at 1	0th day?				
	a) 100 b)102	.3	c)102	0	d)2	000		
18.	What is the angle bet	ween th	e lines r	epresent	ted by	2x - 3y	= 5 and	
	3x + 2y = 5?							
	a) 45° b) 60°	D	c)0°		d)9	0°		

19. The highest value of

 \vec{a} . \vec{b} can be obtained while angle between vectors \vec{a} and \vec{b} is a) 0° b)90° c)180° d)45° 20. If $sinA = \frac{1}{2}$, then what is the value of cos 2A if A is acute angle? b) $\frac{\sqrt{3}}{2}$ c) $-\frac{1}{2}$ a) $\frac{1}{2}$ d)None 21. What is the value of $sin(270^{\circ} - 2A)$? a) Sin2A b)-Sin2A c)-Cos2A d)Cos2A22. The pair of lines represented by $ax^2 + 2hxy + by^2 = 0$ represent perpendicular lines if: a) a - b = 0 b) $h^2 + ab = 0$ c)a + b = 0 d) $h^2 - ab = 0$ 23. A circle is represented by the equation $3x^2 + 3y^2 - 12x + 18y -$ 3 = 0, its center is: b)(2,3) c)(-2,-3) d)(2,-3)a) (-2,3) 24. The combined transformation of reflection through x axis followed by reflection through y axis is equivalent to which of the following transformations? a) Reflection through line x + y = 0b) Reflection through line x - y = 0c) Rotation +90° about origin d) Rotation 180° about origin 25. In interval notation, $3 < x < 5, x \in R$ can be written as:

a) [3,5] b) (3,5] c) [3,5) d) (3,5)

PHYSICS [20 Marks]

- 26. Which one of the following is not a derived unit ?

 a).Ohm
 (b) Watt
 (c) Mole
 (d) Volt

 27. What is the weight of a body having 50 kg mass on the moon?

 (a) 8.35 N
 (b) 83.5 N
 (c) 835
 (d) 8355 N

 28. What will be the change in the gravitational force between two
 - bodies when they are taken from the earth to the lunar surface?
 - (a) Force increases by six times . (b) Force decreases by six times
- . (c) Force remains same . (d) Force becomes zero .
- 29. A stone is dropped from top of a tower & it striked the ground after time 2 seconds then what is the height of the tower ?
 - (a) 5 meter (b) 10 meter (c) 20 meter (d) 40 meter

30. What would be the weight of a	body of mass 20 kg at the distance							
12000 km from center of the ea	rth of mass 6 X 10 ²⁴ kg?							
(a) 25 N (b) 35 N	(c) 45 N (d) 55 N							
31.A life jacket works based on th	e principle of							
(a) Newton's law	(b) Bernoulli's principle							
(c) Pascal's law (d) Archimedes' law								
32.Upthrust is the force experienced by an								
object immersed in a liquid ?								
(a) downward (b) gravitation	ıal							
(c) upward (d) horizontal								
33. Why do objects float more easi	ly in sea water than in river water?							
(a) Temperature of sea water is	more than that of river water.							
(b) Temperature of sea water is	less than that of river water.							
(c) Density of sea water is more	e than that of river water.							
(d) Density of sea water is less	than that of river water.							
34. In a hydraulic machine, area of	big piston is 25 cm ² & that of small							
piston is 4 cm ² then how much	5000N in his sister 2							
piston to overcome the load of $(a) \in OO N$	$\frac{5000 \text{ N}}{1000 \text{ N}} = \frac{1200 \text{ N}}{1200 \text{ N}}$							
(a) 600 IN (b) 800 IN 25 Pailing point of water in kelvir	(C) 1000 N $(d) 1200 N$							
(a) $300 K$ (b) $312 K$	(a) 322 K (d) 373 K							
(a) 500 K (b) 512 K	$(C) 352 \mathbf{K}$ $(U) 575 \mathbf{K}$							
body looses heat to the cold bo	dy until they have same							
(a) mass	(b) specific heat capacity							
(a) mass (c) temperature	(d) state							
37 Which of the following is an ef	fect of low specific heat capacity?							
(a) Objects heat up quickly	feet of 10 w specific field cupacity.							
(h) Objects cool down slowly								
(c) Objects do not absorb heat.								
(d) Objects retain heat for long	er periods.							
38. What is the S.I unit temperature	e ?							
(a) Celcius (b) Kelvin	(c) Joule (d) Calorine							
39. What type of image is formed v	when an object is placed at 30 Cm in							
front of a convex lens with the	value of 2F as 80 Cm ?							
(a) Real and magnified	(b) Real and diminished							
(c) Virtual and magnified	(d) Virtual and diminished							

40.During the p	40. During the process of dispersion of light through a prism, which							
colour is see	n at the top?							
(a) Indigo	(b) Violet	(c) Blue	(d) Red					
41.If the velocit	41.If the velocity of light in water medium is 2.2×10^{8} m/s then what							
is the value of	of refractive index	s of water ?						
(a) 1	(b) 1.33	(c) 1.45	(d) 1.5					
42. Power of a l	lens is calculated	by taking	of its focal length (f)					
when it is in	meter.							
(a) double	(b) half	(c) square 1	root (d) reciprocal					
43.Which devic	e is based on the	principle of n	nutual induction?					
(a) Electric	motor	(b) Generat	(b) Generator					
(c) Inverter		(d) Transfo	(d) Transformer					
44.What is the u	unit of electricity	consumption	?					
(a) Watt hou	r	(b) Kilowa	att hour					
(c) Watt seco	ond	(d) Kilowa	tt second					
45.What is the r	neaning of 'd' in I	Hubble's prin	ciple $V = H.d$?					
(a) Density of	of galaxies .	(b) Distanc	e between galaxies.					
(c) Diameter	of galaxies.	(d) Depth of	of galaxies .					

CHEMISTRY [20 Marks]

46. Which element is placed in group 1 and period 2?									
a) Hydrogen	b) Lithium	c) Sodium	d) Potassium						
47.T he reaction:	Zn+HCl	$Z nC I_2 + H_2$ is a:							
a) Combination	a) Combination reaction b) Displacement reaction								
c) Decomposit	ion reaction	d) Neutralizat	ion						
48. Which of the fe	ollowing is a c	lecomposition rea	ction?						
a) CaCO ₃	$CaO + CO_2$	b) $H_2 + O_2$ H	20						
c) Na + Cl ₂	NaCl	d) $Cu + AgNO_3$	$Ag + Cu(NO_3)_2$						
49. Which gas is co	ollected over v	water in the lab pr	reparation of						
hydrogen?									
a) Oxygen	b) Hydrogen	c) Chlorine	d) Carbon dioxide						
50.Which metal is	the most mal	leable?							
a) Iron	b) Gold	c) Zinc	d) Copper						
51. Which gas is u	sed to make fe	ertilizers?							
a) Oxygen	b) Ammonia	c) Hydrogen	d) Carbon dioxide						
52.Which compou	and is the main	n component of na	atural gas?						
a) Ethane	b) Methane	c) Propane	d) Butane						

53. Acetylene is also known as: a) Ethane b) Methane d) Butene c) Ethyne 54. Which compound is used as an antacid? b) NaOH d) NaCl a) H_2SO_4 c) $Mg(OH)_2$ 55. Which chemical is used in making soaps? b) Potassium hydroxide a) Sodium chloride c) Calcium carbonate d) Sulphur dioxide 56.In which block of modern periodic table, inert gas are kept? b) P - block c) d - blockd) f - block a) S - block57.In modern periodic table, alkaline earth metals are kept in the group _ b) II 'A' a) I 'A' c) VII 'A' d) VIII 'A' 58. Which one of the following is the most reactive non-metal? c) Bromine d) Iodine a) Fluorine b) Chlorine 59. Which chemical reaction is also known as neutralization reaction? A) a)Acid - base reaction b) Combination reaction c) Decomposition reaction d) Displacement reaction 60. Which one of the following factor is required in the reaction, N_2 + $3H_2 \rightarrow 2NH_3?$ d) All of above a) Heat b) Pressure c) Catalyst 61. When Ammonia gas is passed into the water containing phenolphthalein then it turns into a) red b) blue c) pink d) yellow 62. Which one of the following compounds is used as antacid? c) NH4(OH) a) NaOH b) Ca(OH)2 d) Mg(OH)2 63. How many electrons can be accommodated in d-subshell? a) 2 b) 6 c) 10 d) 14 64. Which gas is not considered as greenhouse gas? a) Methane b) Carbon dioxide c) Oxygen d) Nitrous oxide 65. Which one of the following is not a coinage metal? a) Aluminium b) Copper c) Gold d) Silver

BIOLOGY [20 Marks] 66.In which group does sodium citrate lie? a) Soap b) Detergent c)I nsecticide d) Food preservative 67. Identify the group of insecticides? a) DDT, sodium chloride, Aldrin b) Dieldrin, DDT, methoxychloride c) Potassium chloride, aldrin, malathion d) Potassium chloride, aldrin, BHC 68. Which bee contains only 16 chromosomes? b)Worker bee a) Oueen bee c) Drone bee d)Queen and worker bee 69. Which bee is formed when the larva is feed royal jelly continuously? a) Queen b) Drone c) Workers d) Queen and worker bee 70. Where does the queen bee stores the sperm received from the drone bee after the nauptial flight a) Pollen sac b) Ovary c) Sperm sac d) Egg sac 71. What is the main function of sex chromosomes? a) To determine physical character b) To determine sex c) To increase immunity d) To determine the structure of the eye 72. Which of the following is the genotypic ratio of monohybrid cross? a) 1:2 b)3:1 c)1:2:1 d) 9:2:3:1 73.In order to produce good meat, farmers look for Boer goats and cross them with local goats. What kind of breeding method is this? a) Artificial insemination b) Selective breeding d) Natural selection c) IVF 74. Which of the following blood cells is without a nucleus? b) Lymphocyte a) Neutrophil d) Platelets c) Monocyte 75. Which part of Bojo is used for medicinal purposes? a) Rhizome b) Leaf c) Stem d) Flower 76.Rama has been coughing for a longtime? For this, which medicinal plant helps to get relief from cough? b) Aloevera juice a) Boiled neem water d) Yatsagumba powder c)Boiled tulsi water

77. Who is the founder of the bi	nomial system of n	omenclature?					
a) Carolus Linnaeua	b) R.H. whitaker						
c) Chatton	d) Robert Koch						
78. What characteristic make the <i>Euglena</i> different from othe animals?							
a) Presence of chlorophyll	b) Unicellular						
c) Find in water	d) Depend to other	r organism					
79. Which mushroom is used to prepare the medicine for the cancer?							
a) Red mushroom	b) Dalle mushroon	n					
c) Kanya mushroom	d) Gobre mushroo	m					
80. What is the name of the ster	ile cell in hymeniur	n?					
a) Basidium b) Trama	c) Paraphysis	d) Hypha					
81. Which one is the example of	f homologous orgar	ns?					
a) Our hand and fore leg of	of the horse						
b) Our ear and rabbit ear							
c) Canine teeth of human	and dog						
d) Our hand and elephant	ivory						
82. Where does the meristemati	c tissue lie in plants	s?					
a) Tip of root	b) Tip of stem and	branch					
c) Around the stem	d) All parts of plan	nt					
83. Which one is the type of tiss	sue with cell divisio	n capacity?					
a) Complex tissue	b) Connective tiss	ue					
c) Permanent tissue	d) Meristematic tis	ssue					
84. Which part of nervous syste	m is in ash colour?						
a) Nerve fibers b) Cyton	c)Axon	d)Dendrites					
85. Which hormone causes apic	al dominance?						
a) Cytokinin b)Auxin	c)Ethylene	d)Gibberellin					

ENGLISH [15 Marks]

86. Passive: "They cleaned the room before we arrived."

- (a) The room was cleaned before we arrived.
- (b) The room is cleaned before we arrived.

(c) The room has been cleaned before we arrived.

(d) The room is being cleaned before we arrived.

87. Change into active: "Were you recognized by her?"									
(a) Does she r	(a) Does she recognize you? (b) Did she recognize you?								
(c) Had she re	(c) Had she recognized you? (d) Do you recognize her?								
88. Indirect speed	h: He said, "I was ti	red."							
(a) He said he	is tired.	(b) He said h	e was tired.						
(c) He said he	had been tired.	(d) He said h	e would be tired.						
89.Indirect speech	h: She said, "We are	leaving now."							
(a) She said th	ey are leaving now.								
(b) She said th	ey had left.								
(c) She said th	ey were leaving the	n.							
(d) She said w	e leave now.								
90. WH-question	: "She arrived at 6 p	.m."							
(a) What did s	he arrive?	(b) When did	l she arrive?						
(c) Why did sl	ne arrive?	(d) How did	she arrive?						
91. If I you,]	l wouldn't do that.								
(a) am	(b) was	(c) were	(d) be						
92 If we now	, we'll miss the bus.								
(a) don't leave	e	(b) didn't leave							
(c) hadn't left		(d) won't leave	(d) won't leave						
93.She has u	mbrella.								
(a) a	(b) an	(c) the	(d) no article						
94. I saw star	rs in the sky.								
(a) a	(b) an	(c) the	(d) no article						
95.He is afraid	heights.								
(a) with	(b) of	(c) at	(d) from						
96. She's involve	d a new project.								
(a) on	(b) with	(c) in	(d) to						
97. They heard he	r a song.	<i>.</i> .							
(a) to sing	(b) sing	(c) sang	(d) singing						
98.She got her ho	ouse last year.								
(a) paint	(b) painted	(c) painting	(d) paints						
99. Which modal	expresses lack of ne	cessity?							
(a) needn't	(b) must	(c) can	(d) shall						
100. Which moda	al expresses future ce	ertainty?	(1)						
(a) can	(b) will	(c) may	(d) might						

All the Best

Answer Sheet Entrance Model Questions-2082 (1) Faculty of Science

1	2	3	4	5	6	7	8	9	10
a	с	b	b	с	с	с	с	с	с
11	12	13	14	15	16	17	18	19	20
b	с	а	b	d	b	d	а	с	d
21	22	23	24	25	26	27	28	29	30
b	b	а	а	с	a	b	b	a	d
31	32	33	34	35	36	37	38	39	40
b	с	d	с	d	b	с	а	а	а
41	42	43	44	45	46	47	48	49	50
а	b	d	с	b	с	а	с	а	с
51	52	53	54	55	56	57	58	59	60
d	b	b	b	b	b	с	а	а	а
61	62	63	64	65	66	67	68	69	70
b	а	с	d	b	а	b	b	b	с
71	72	73	74	75	76	77	78	79	80
b	а	а	а	b	с	а	d	с	с
81	82	83	84	85	86	87	88	89	90
b	d	a	с	a	a	a	b	b	a
91	92	93	94	95	96	97	98	99	100
a	a	с	а	b	d	a	b	с	b

	Answer Sheet
Entrance	Model Questions-2082 (2)
	Faculty of Science

1	2	3	4	5	6	7	8	9	10
a	d	с	d	с	b	с	а	d	d
11	12	13	14	15	16	17	18	19	20
b	а	b	а	с	b	d	d	b	b
21	22	23	24	25	26	27	28	29	30
a	b	d	d	а	d	b	с	a	а
31	32	33	34	35	36	37	38	39	40
а	d	d	с	d	с	b	b	b	с
41	42	43	44	45	46	47	48	49	50
b	с	а	b	d	с	b	b	а	с
51	52	53	54	55	56	57	58	59	60
b	a	а	b	b	с	с	b	а	с
61	62	63	64	65	66	67	68	69	70
с	a	b	а	с	d	d	а	а	d
71	72	73	74	75	76	77	78	79	80
а	а	а	а	b	с	а	d	с	с
81	82	83	84	85	86	87	88	89	90
a	a	b	с	с	с	с	с	b	a
91	92	93	94	95	96	97	98	99	100
с	а	b	а	а	с	с	d	b	с

Answer Sheet Entrance Model Questions-2082 (3) Faculty of Science

1	2	3	4	5	6	7	8	9	10
с	а	b	с	b	а	b	а	a	d
11	12	13	14	15	16	17	18	19	20
с	d	с	b	d	b	b	а	а	b
21	22	23	24	25	26	27	28	29	30
с	d	d	с	d	b	b	с	b	b
31	32	33	34	35	36	37	38	39	40
с	b	b	с	с	с	с	b	с	с
41	42	43	44	45	46	47	48	49	50
а	b	с	а	с	a	с	b	b	d
51	52	53	54	55	56	57	58	59	60
b	b	а	с	с	b	a	а	d	а
61	62	63	64	65	66	67	68	69	70
а	а	a	a	b	b	с	d	a	d
71	72	73	74	75	76	77	78	79	80
а	b	a	d	с	а	a	d	с	b
81	82	83	84	85	86	87	88	89	90
а	b	b	а	b	с	с	с	а	а
91	92	93	94	95	96	97	98	99	100
с	а	b	а	а	с	с	d	a	с

1	2	3	4	5	6	7	8	9	10
а	b	b	d	а	d	b	b	b	b
11	12	13	14	15	16	17	18	19	20
а	с	а	а	с	b	b	а	b	с
21	22	23	24	25	26	27	28	29	30
d	с	d	d	b	с	с	b	b	с
31	32	33	34	35	36	37	38	39	40
а	b	а	с	b	с	b	с	b	b
41	42	43	44	45	46	47	48	49	50
b	а	d	с	с	b	d	b	с	a
51	52	53	54	55	56	57	58	59	60
с	с	с	d	с	b	d	с	с	b
61	62	63	64	65	66	67	68	69	70
b	с	а	d	b	а	b	b	а	с
71	72	73	74	75	76	77	78	79	80
b	b	b	d	b	с	b	а	d	b
81	82	83	84	85	86	87	88	89	90
с	с	b	а	с	с	с	а	а	b
91	92	93	94	95	96	97	98	99	100
b	d	d	a	a	b	b	a	a	a

Answer Sheet Entrance Model Questions-2082 (4) Faculty of Science

Answer Sheet Entrance Model Questions-2082 (5) Faculty of Science

1	2	3	4	5	6	7	8	9	10
b	а	а	b	b	b	b	с	b	b
11	12	13	14	15	16	17	18	19	20
с	с	а	с	с	b	d	а	b	с
21	22	23	24	25	26	27	28	29	30
b	а	b	d	a	b	b	с	b	с
31	32	33	34	35	36	37	38	39	40
d	а	а	с	d	с	b	с	a	с
41	42	43	44	45	46	47	48	49	50
а	d	а	а	b	а	a	с	b	b
51	52	53	54	55	56	57	58	59	60
а	с	b	b	а	с	с	b	b	d
61	62	63	64	65	66	67	68	69	70
а	с	d	а	a	b	с	b	b	b
71	72	73	74	75	76	77	78	79	80
b	b	b	с	b	а	а	а	b	b
81	82	83	84	85	86	87	88	89	90
с	a	с	b	с	b	b	b	b	b
91	92	93	94	95	96	97	98	99	100
b	b	b	b	b	с	a	b	b	a

Answer Sheet Entrance Model Questions-2082 (6) Faculty of Science

1	2	3	4	5	6	7	8	9	10
с	с	b	с	b	d	с	b	a	b
11	12	13	14	15	16	17	18	19	20
d	d	а	b	d	с	d	с	с	а
21	22	23	24	25	26	27	28	29	30
а	b	b	с	а	b	а	с	d	а
31	32	33	34	35	36	37	38	39	40
а	с	d	с	d	d	d	с	а	с
41	42	43	44	45	46	47	48	49	50
a	b	с	а	с	a	b	с	d	а
51	52	53	54	55	56	57	58	59	60
с	b	d	d	с	b	а	а	b	b
61	62	63	64	65	66	67	68	69	70
b	а	d	с	b	b	с	с	b	b
71	72	73	74	75	76	77	78	79	80
с	с	b	с	с	b	а	а	с	b
81	82	83	84	85	86	87	88	89	90
b	b	b	с	b	с	b	b	а	с
91	92	93	94	95	96	97	98	99	100
b	b	а	а	а	b	с	b	а	а

Faculty of Science									
1	2	3	4	5	6	7	8	9	10
 a	b	c	b	c	b	b	c	a	b
11	12	13	14	15	16	17	18	19	20
а	с	с	d	b	а	d	а	с	а
21	22	23	24	25	26	27	28	29	30
b	С	d	С	d	d	С	с	b	b
31	32	33	34	35	36	37	38	39	40
с	а	с	с	b	b	d	b	с	b
41	42	43	44	45	46	47	48	49	50
d	d	а	с	b	b	а	а	b	с
51	52	53	54	55	56	57	58	59	60
d	с	с	b	b	b	с	с	с	с
61	62	63	64	65	66	67	68	69	70
с	b	С	b	d	b	b	с	b	b
71	72	73	74	75	76	77	78	79	80
С	С	С	b	С	b	а	b	b	d
81	82	83	84	85	86	87	88	89	90
b	а	b	d	d	с	а	с	b	d
91	92	93	94	95	96	97	98	99	100

Answer Sheet Entrance Model Questions-2082 (7) Faculty of Science

а

b

с

b

b

b

d

d

b

с

Answer Sheet Entrance Model Questions-2082 (8) Faculty of Science

1	2	3	4	5	6	7	8	9	10
b	с	с	а	с	с	b	b	а	с
11	12	13	14	15	16	17	18	19	20
d	а	d	b	с	с	b	d	а	а
21	22	23	24	25	26	27	28	29	30
с	с	d	d	с	с	b	b	с	d
31	32	33	34	35	36	37	38	39	40
d	с	с	b	d	с	а	b	а	d
41	42	43	44	45	46	47	48	49	50
b	d	d	b	b	b	b	а	b	b
51	52	53	54	55	56	57	58	59	60
b	b	с	с	b	b	b	а	d	d
61	62	63	64	65	66	67	68	69	70
b	d	с	с	a	d	b	с	a	с
71	72	73	74	75	76	77	78	79	80
b	с	b	d	a	с	а	а	d	с
81	82	83	84	85	86	87	88	89	90
а	d	а	b	b	a	b	с	с	b
91	92	93	94	95	96	97	98	99	100
c	а	b	с	b	c	b	b	с	b



Entrance Model Question -2082 (1) Faculties of Management/Humanities/Law

Time: 2 HrsFull Marks: 100Pass Marks: 40

Choose the best option and cross-mark the right box available in the answer sheet.

ENGLISH [45 Marks]

1.	She is junior me.								
	a) to	b) than	c) with	d) by					
2.									
	a) got	b) made	c) had	d) make					
3.	The letter was writt	en red ink.							
	a) in	b) with	c) on	d) by					
4.	The teacher said to	me, "You can do	o if you try."						
	a) The teacher told	me that she could	d do if I tried.						
	b) The teacher told	me that I could d	lo if I tried.						
	c) The teacher told me that you can do if you try.								
	d) The teacher told	me that I can do	if I try.						
5.	Their based on	facts.							
	a) information is	b) infor	mations are						
	c) information are	d) infor	mations is						
6.	You'd better a	doctor.							
	a) seen	b) to see	c) see	d) seeing					
7.	I have been teachin	g English 19	999.						
	a) for	b) since	c) from	d) to					
8.	The correct spelling	g is:							
	a) karnel	b) colonal	c) colonel	d) komel					
9.	She does not m	oney.							
	a) has	b) have	c) had	d) gets					
10.	One of the girls	gone out.							
	a) have	b) are	c) has	d) is					

11.	The hotter it is, I feel.				
	a) more miserable	b) the more miserable			
	c) the much miserable	d) the most miserable			
12.	Antonym of "brave" is:				
	a) coward b) army officer	c) weak d) gen	eral		
13.	I am to take revenge.				
	a) good enough	b) enough good			
	c) experienced good	d) enough better			
14.	Had I been born in the USA, I _	a car.			
	a) had purchased	b) will have purch	ased		
	c) would purchase	d) would have pure	chased		
15.	He was not Indian.				
	a) a b) an	c) the	d) no article		
16.	Let us go home,?	\ '11	1 1 11 7		
	a) shall we b) will we	c) will you	d) shall I		
17.	I am used to late night.				
	a) read b) reading	c) reads	d) red		
18.	She is NCC officer.				
	a) a b) the	c) no article	d) an		
19.	The driver is good driving.				
	a) at b) in	c) for	d) on		
20.	She had never by an insect.				
	a) been stung b) been sting	ged			
	c) was stung d) been stung	ged			
21.	I saw him				
	a) played b) had played	c) play	d) to play		
22.	You will pass the final exam	_ you work hard.			
	a) because of b) so that	c) provided that	d) as though		
23.	In 2030, she in the same sch	nool.			
	a) will be working	b) will work			
	c) will have worked	d) will be work			
24.	The committee consists five	e members.			
	a) Off b) of	c) with	d) at		
25.	Do not close the door. Its passiv	ve is:			
	a) Let not the door be closed.				
	b) Let the door not be closed.				
	c) Let the door should be closed				

	d) You are not asked to close the	ne door.					
26.	. Hari says to me, "I am working on a project now."						
	a) Hari told me that he was working on a project then.						
	b) Hari told me if he is working on a project now.						
	c) Hari tells me that he is working on a project then.						
	d) Hari says that he is working	on a project then.					
27.	Ramesh saw ewe yesterday	y.					
	a) an b) a	c) the	d) no article				
28.	Everyone has finished a report,	?					
	a) hasn't everyone b) hasn't t	they					
	c) haven't they d) have the	ney					
29.	The girl was dancing I enter	ered the room.					
	a) after b) although	c) when	d) while				
30.	We took raincoats we coul	d not get wet.					
	a) while b) so that	c) that	d) as				
31.	Neither Deepak nor I going	g to the party.					
	a) are b) is	c) am	d) none				
32.	I failed in the exam. I wish I	hard.					
	a) work b) worked	c) had worked	d) was working				
33.	A person who feels shy and can	n't make more frie	ends is:				
	a) extrovert b) ambient	c) introvert	d) sociable				
34.	They have had a new house	_ ·					
	a) construct	b) to construct					
	c) constructed	d) constructing					
35.	I always work in a dusty enviro	onment. It means	I				
	a) used to work in dust	b) am used to we	ork in dust				
	c) am used to working in dust	d) am used to be	ing in dust				
36.	To write a letter very diffic	cult for them.					
	a) is b) are	c) were	d) none				
37.	Deepa will not carry a heavy lo	oad.					
	a) Neither will Hari do.	b) Neither will H	Iari.				
	c) So will Hari.	d) Hari will not o	carry it, too.				
38.	Provided that Dinesh fulfills al	l the terms and co	onditions,				
	a) he will allow to join university	ity.					
	b) he will be allowed to join un	iversity.					
	c) Depends						
	d) will he allow to be joined						

39. In the use of English, practice and advice are used as:

- a) noun and verb b) adjective and noun
- c) verb and verb d) noun and noun
- 40. The art of beautiful handwriting is called:
 - a) calligraphy b) lexicography
 - c) cartography d) photography
- 41. Grandma is ____ visiting her grandchildren.
 - a) looking for b) looking into
 - c) looking forward d) looking forward to
- 42. She ought to arrive in time, ___?
 - a) ought not she? b) doesn't she?
 - c) shouldn't she? d) mustn't she?
- 43. I hate people complimenting me. Its passive voice is:
 - a) I hate being complemented.
 - b) I hate having been completed
 - c) I hate being completed me.
 - d) I hate being complimented me by people.
- 44. Mumble is related to speak as stagger is related to: a) smile b) grin c) pip d) walk
- 45. No sooner ____ than the light went out.
 - a) did she sit down to watch Bhadragol then
 - b) he sat down to watch Bhadragol, the light went out
 - c) had she sat down to watch Bhadragol when
 - d) had she sat down to watch Bhadragol

MATHEMATICS [30 Marks]

- 46. If f(x) = (x+1)/(x-1), $x \neq 1$, then f(f(x)) =
 - a) (x-1)/(x+1) b) 1/x c) x d) none
- 47. The quadratic equation having roots 2 and 3 is
 - a) $x^2 5x + 6$ b) $x^2 + 5x + 6$
 - c) $x^2 + 5x 6$ d) $x^2 5x 6$
- 48. Orders of matrices A and B are m×n and n×p. Which of the following statements is not true?
 - a) AB is defined b) BA is defined
 - c) order of AB is $m \times p$ d) A + B is not defined
- 49. Angle between the lines represented by $x^2 2xy \cot\theta y^2 = 0$ is a) 30° b) 45° c) 60° d) 90°

50.	Find the val	ue of K in orde	er that the point (I	(X, 1), (5, 5) and
	(10, 7) may	be collinear.		
	a) -3	b) -4	c) -6	d) -5
51.	If 80% of th	e adult popula	tion of a village is	s registered to vote,
	and 60% of	those registere	d actually voted i	n a particular election,
	what percen	t of the adults	in the village did	not vote in that
	election?			
	a) 40%	b) 48%	c) 50%	d) 52%
52.	If ³ / ₄ of a nu	mber is 7 more	e than $\frac{1}{6}$ of the nu	mber, what is the
	number?			
	a) 20	b) 12	c) 18	d) 15
53.	A shopkeep	er fixed the ma	arked price of his	television to make a
	profit of 40°	%. Allowing 20	J% discount on th	e marked price of the
	television w	as sold, what p	bercent profit will	be made?
	a) 10%	b) 12%	c) 15%	d) 11%
54.	Value of x 1	$\ln x - 2 = \sqrt{x}$ is		1)
	a) 1 or 4	b) I only	c) 4 only	d) none
55.	There are 3	red, 2 blue and	d 5 white balls in	a box. A ball is taken
	out random	ly. What is the $\int \frac{1}{2} $	probability of a ba	all being blue or white?
	a) //10	b) 3/10	c) 2/7	d) 5/ /
56.	An ant mov	es 4.4cm per se	econd. How long	will it take to go
	round a circ	$\frac{1}{100}$	iius 21cm?	d) 2/2 minute
- 7	a) $50 \sec$	D) 45 sec	c) Immute	d) $3/2$ minute
57.	Simplify $4\sqrt{2}$	$28 - \sqrt{63}$	\sim	1) 50/7
50	a) $\delta V /$	D) / N /	c) b V / c) c) b V / c)	(a) SV/
58.	Find the con	npound interes	at on Rs. 50,000 ii	ivested for 2 years at
	rate of 4% p	ber annum $h D_{a} = 4090$	a) $D_{a} = 40.25$	d = 40.45
50	a) RS. 4050	D KS. 4080	C) KS. 4025	(1) KS. 4045
39.	if the price of	of petrol off inc	reases by 25% by	f now much percent
	bis provious	isumer reduce	ins consumption of	or petion to maintain
	a) 0%	b) 20%	a) 25%	d) 1%
60	a) 070 What is the	0) 2070	C 2.370 on the control and	u) 170
00.	the circumf	arence standing	the contract ang	gie with the alighe at
	a) equal	b) double	c) three times	d) four times
61	Given that 1	76 dollars - f	100 and f1 - Rs	110 Find in dollars
01.	for Rs 8024	z = z	$100 \text{ and } z_1 - \text{KS}.$	
	a) $\$122$	b) \$132	c) \$134	d) \$140
	u) ψ122	<i>σμ</i> 1 <i>3</i> 2	οj ψ15 -	ψίτυ
			91	

62.	$(x^{p})(x^{q})(x^{r})$	$= x^{s}$. Find s in	terms of p, q & r.	
	a) r + p + q	b) rpq	c) $r - q - p$	d) none
63.	The two end	ls of a diamete	er are (-4,1) and (2	2,1). Find area of the
	circle			
	a) 3π	b) 9π	c) 6π	d) 36π
64.	After paying	g an income tax	x of 5% a man has	Rs. 7600 left. What
	is his income	e?		
	a) Rs.800	b) Rs. 8000	c) Rs.4000	d) Rs.16000
65.	If $5x + 13 =$	31. Find $\sqrt{5x}$	+ 31)	
	a) 7	b) √173/5	c) 15	d) √13
66.	The price of	50 books is Rs	s. 4000. If the price	e is increased by
	25%, what w	vill be the price	e of 36 books?	
	a) 3500	b) 2500	c) 3600	d) 4000
67.	12p + 3q = 1	and $7q - 2p =$	9. What is the ave	erage of p and q?
	a) 0.1	b) 1	c) 0.5	d) 2.5
68.	If $x - y = 5$,	and $xy = 6$. Fig	nd the value of x^3	- y ³
	a) 219	b) 129	c) 215	d) 228
69.	If $ab + bc +$	$ca = 0, x^a \cdot x^b$	$\cdot \mathbf{X}^{c} = ?$	
	a) 1	b) x^{a+b+c}	c) 0	d) x
70.	What percent	tage of 1 km 2	20m is 720m?	
	a) 71%	b) 70.58%	c) 70%	d) 85%
71.	$\mathbf{x}(\mathbf{x}-3)=\mathbf{x},$, then $x =$		
	a) 0, –4	b) 0, 4	c) -4, 4	d) 0, 3
72.	$ax + b^2 = a^2$	+ bx, then solv	e for x	
	a) $a^2 - b^2$	b) a + b	c) a – b	d) 1
73.	If the replace	ment set of the	set of $5x - 1 \le 9$ is	$\{-2, -1, 0, 1, 2, 3, 4\}.$
	Find the solu	tion		
	a) $\{-2, -1, 0\}$)} b) {-2, -	-1, 0, 1	
	c) {2}	d) {-2, -	$-1, 0, 1, 2\}$	
74.	The locus of	the point whose	se abscissa and ord	linate are always
	equal is			
i	a) $x + y = 0$	b) $x - y = 0$	c) $x + y = 1$	d) $x - y = 1$
75.	The point of	intersection of	f perpendicular bis	ectors of the sides
	of a triangle	is known as		

a) centre b) incentre c) orthocenter d) circumcenter

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NEPALI [25 Marks] 2082 (1) ७६. 'उज्यालो यात्रा' कविताका लेखक को हुन ? क) रामप्रसाद ज्ञवाली
 ख) शिवप्रसाद ज्ञवाली
 ग) सत्यप्रसाद ज्ञवाली
 घ) श्यामप्रसाद ज्ञवाली घ) श्यामप्रसाद ज्ञवाली ७७. 'उज्यालो यात्रा' कविताको शैली कस्तो छ ? क) वर्णनात्मक ख) भावनात्मक ग) तर्कात्मक
 घ) व्यङ्ग्यात्मक ७८. रणबहाद्र शाहकी आमाको नाम के हो ? क) राज्यलर्क्ष्मी ख) राजेन्द्रलक्ष्मी ग) नरेन्द्रलक्ष्मी घ) धनलक्ष्मी ७९. आयुर्वेद चिकित्सा शास्त्रमा उपचारका कतिओटा शाखा छन् ? क) पाँच ओटा ख) छ ओटा ग) सात ओटा घ) आठ ओटा ८०. 'यस्तो कहिल्यै नहोस्' मनोवादको पात्रको नाम के हो ? क) भारतकमान ख) गम्भीरमान ग) श्कमान घ) वीरमान = 4. यस्तो कहिल्यै नहोस् मनोवादको पात्र धन कमाएको कहाँ थियो ? क) मलेसिया ख) अरब ग) कतार घ) भारत ५२. लक्ष्मीप्रसाद देवकोटा कति सालमा शिक्षा मन्त्री भएका थिए ? क) वि.सं २०१३ ख) वि.सं २०११ ग) वि.सं २०१४ घ) वि.सं २०१२ ८२. लक्ष्मीप्रसाद देवकोटाले लेखेको एक मात्र उपन्यासको नाम के हो ? क) मुनामदन
 ख) चम्पा
 ग) कुञ्जिनी
 घ) सुलोचना ८४. विश्वेश्वरप्रसाद कोइरालाको जन्म कहिले भएको थियो ? क) वि.सं. १९७१ भदौ २५ख) वि.सं. १९७१ भदौ २२ग) वि.सं. १९७१ भदौ २३घ) वि.सं. १९७१ भदौ २४ ८५. कवि मुकुन्दशरण उपाध्यायको कुन कृतिले मदन पुरस्कार पाएको थियो ? क) प्राकृत पोखरा ख) मेरो पोखरा ग) राम्रो पोखरा घ) स्न्दर पोखरा क) त्रिपिटक
 ख) म्न्ध्म
 ग) उपनिषद्
 घ) धम्मपद ८७. सन्दुक रुइतले तिलगङ्गा आँखा केन्द्रको स्थापना कहिले गरे ? क) वि.सं. २०४२ साल ख) वि.सं. २०४१ साल ग) वि.सं. २०४० साल घ) वि.सं. २०४३ साल ८८. सन्द्क रुइतले इसा अवार्ड कहिले प्राप्त गरे ? क) सन्२०२३ ख) सन्२०२४ ग) सन्२०२२ घ) सन्२०२१ ८९ 'आयाम' कथाकी पात्र सन्तमायाले पहिलो श्रीमान्को मृत्युपछि कोसँग विवाह गरिन ? क) सानो तामाङ ख)सालु तामाङ ग) सानु तामाङ घ) सन्देश तामाङ ९०. पिकासोले नौ वर्षको उमेरमा तयार पारेको चित्रको नाम के हो ?

क) पिकाडोरख) सिकडोरग) रिकडोरघ) छिकडोर ९९. 'गरिब आयो ।' यस वाक्यमा । 'गरिब' कुन पदवर्गमा पर्छ ? ख) विशेषण ग) सर्वनाम घ) क्रियाविशेषण क) नाम ९२. 'ध्वजा'को पर्यायवाची शब्द कुन हो ? ख) कपडा ग) भण्डा घ) ध्वनि क) कागज ९३. भरेरो भाइलाई उसले बजार पठायो।' यस वाक्यमा उद्देश्य पद कुन हो ? क) मेरो ग) उसले घ) बजार ख) भाइ ९४. 'ऊ डुङ्गाबाट पोखरीमा खस्यो ।' यस वाक्यमा डुङ्गाबाट' कुन कारक हो ? ग) अधिकरण घ) कर्म क) करण ख) अपादान ९४. 'हामी कविताहरू लेखौँ ।' यस वाक्यको कर्म वाच्य कुन हुन्छ ? क) कविताहरू लेखियोस् । ख) कविताहरू लेखियून् । ग) कविताहरू लेखोस् । घ) कविताहरू लेखिएलान् । ९६. 'तिमी आए राम्रो हुन्थ्यो ।' यो कुन वाक्य हो ? क) सामान्यार्थक ख) इच्छार्थक ग) आज्ञार्थक घ) सङ्केतार्थक ९७. 'कहिल्यै बुढो नहने' को पर्यायवाची शब्द तलका मध्ये कुन हो ? ग) निरोगी घ) दीर्घजिवी क) अमर ख) अजर ९८. तलका मध्ये कुन अनेकार्थी शब्द होइन ? ग) घस घ) रस क) कस ख) बस ९९. लक्ष्मीप्रसाद देवकोटाकी पत्नीको नाम के थियो ? क) चुनदेवी चालिसे
ख) मनदेवी चालिसे
ग) मनमाया चालिसे
घ) रमामाया चालिसे १००. 'कर्तव्य' शब्दको विग्रह के हो ? क) कृ +तव्य ख) कर +तव्य ग) कृर +तवय घ) कु +तव्य

≁ Best of Luck ≁

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Model Question for Entrance Examination-2082-2 Faculties of Management/Humanities/Law

Time: 2 hrsFull Marks: 100Pass Marks: 40

Choose the best option and cross-mark the right box available in the answer sheet.

ENGLISH [45 Marks]

- 1. Rewrite the sentence "They constructed a modern museum last year" in the passive voice.
 - a) A modern museum is constructed by them last year.
 - b) A modern museum was constructed by them last year.
 - c) A modern museum has been constructed by them last year.
 - d) A modern museum is being constructed by them last year.
- 2. Which of the following sentences is written in the passive voice?a) The committee approved the proposal yesterday.
 - b) The proposal was approved by the committee yesterday.
 - c) They are approving the new proposal.
 - d) The committee will approve the proposal tomorrow.
- 3. Choose the correct passive form of: "The professor will explain the theory."
 - a) The theory is explained by the professor.
 - b) The theory will be explained by the professor.
 - c) The theory was explained by the professor.
 - d) The theory has been explained by the professor.
- 4. Select the correct transformation to passive voice for: "They can solve the problem."
 - a) The problem can be solved by them.
 - b) The problem is solved by them.
 - c) The problem was solved by them.
 - d) The problem has been solved by them.

- 5. Convert the direct speech "He said, 'I will travel abroad" into indirect speech.
 - a) He said that he will travel abroad.
 - b) He said that he was traveling abroad.
 - c) He said that he would travel abroad.
 - d) He said that he has traveled abroad.
- 6. Which is the correct indirect speech version of: "She said, 'I have completed my report"?
 - a) She said that she completes her report.
 - b) She said that she had completed her report.
 - c) She said that she will complete her report.
 - d) She said that she is completing her report.
- 7. Identify the appropriate transformation of: "They said, 'We are planning a celebration".
 - a) They said that they are planning a celebration.
 - b) They said that they were planning a celebration.
 - c) They said that they plan a celebration.
 - d) They said that they would plan a celebration.
- 8. Which sentence features a causative verb?
 - a) The musician practices diligently every day.
 - b) The manager got the report printed overnight.
 - c) They finished their homework on time.
 - d) The artist painted a beautiful portrait.
- 9. Choose the sentence that correctly utilizes a causative verb.
 - a) She has her car washed every week.
 - b) He helps his neighbor fix the fence.
 - c) They invited their friends to the party.
 - d) The teacher explained the experiment clearly.
- 10. Which sentence employs a causative form?
 - a) The gardener allowed the children to water the plants.
 - b) The chef is cooking dinner now.
 - c) They celebrated their victory enthusiastically.
 - d) She designed the new logo herself.
- 11. Select the sentence that uses a causative construction correctly.
 - a) He writes his essays neatly.
 - b) She got her hair styled for the occasion.
 - c) They observed the rare bird in the garden.
 - d) The student completed the assignment on time.

- 12. Which modal auxiliary is best suited to express a polite request? a) Might b) Can c) Would d) Must
- 13. Choose the modal that expresses past ability or permission. d) Should b) Could c) Will a) Shall
- 14. Which modal auxiliary verb is most appropriate for giving advice? a) Mav b) Should c) Must d) Will
- 15. Identify the sentence that correctly represents the third conditional form.
 - a) If she wins the prize, she will celebrate.
 - b) If he had trained harder, he would have won the match.
 - c) If they are ready, they will start the exam.
 - d) If I see her. I tell her the news.
- 16. Select the sentence that is an example of the zero conditional.
 - a) If water reaches 100°C, it boils.
 - b) If he had eaten, he would not be hungry.
 - c) If she goes to the market, she buys fruits.
 - d) If they win, they celebrate.
- 17. Which sentence best demonstrates the first conditional tense? a) If you drink too much coffee, you will feel jittery.

 - b) If he had left early, he wouldn't be late.
 - c) If they had prepared, they would have succeeded.
 - d) If she visited, she would see the changes.
- 18. Identify the sentence that correctly uses the second conditional. a) If I win the lottery, I will buy a mansion.
 - b) If I were rich, I would travel around the world.
 - c) If she studies, she will pass the exam.
 - d) If he arrives, he gets a warm welcome.
- 19. What is a synonym for "exquisite"?
- a) Ordinary b) Beautiful c) Common d) Rough 20. Select the word most similar in meaning to "energetic".
 - d) Apathetic b) Dynamic c) Passive a) Lethargic
- 21. Which word has a meaning most akin to "confident"?
- a) Anxious b) Secure c) Unsure d) Timid 22. What is an antonym for "optimistic"?
 - b) Depressed c) Cheerful a) Hopeful d) Joyful
- 23. Choose the word that is opposite in meaning to "generous". b) Giving c) Magnanimous d) Altruistic a) Stingy

24. What is the antonym of	f "victorious"?
a) Triumphant b) Defe	ated c) Successful d) Celebratory
25. What does the idiom "	spill the beans" mean?
a) To hide a secret	b) To reveal confidential information
c) To act impulsively	d) To start a conversation
26. What is the meaning of	the phrase "pull out all the stops"?
a) To give up easily	b) To use every possible resource
c) To stop suddenly	d) To remain indifferent
27. The idiom "kick the bu	cket" is best understood as:
a) To win a prize	b) To begin a journey
c) To die	d) To clean up thoroughly
28. Which sentence uses th	e article "an" correctly?
a) He is an honest pers	on. b) She is an university student.
c) They are an honorab	le team. d) I met an European artist.
29. Which sentence is corr	ect in terms of article usage?
a) My father is doctor.	b) She adopted a cat and a dog.
c) They enjoyed a cond	cert last night. d) My sister is engineer.
30. Identify the sentence w	ith the correct article usage.
a) He went to a hospita	l for treatment.
b) She studies in an eli	te college.
c) They visited the mus	seum on Saturday.
d) I will call you at eve	ning.
31. Choose the preposition	n that best completes the sentence: "He is
keen learning lang	uages."
a) on b) for	c) in d) about
32. Which preposition con	rectly fills in the blank: "She is fond
classical music."	
a) on b) of	c) in d) at
33. Select the correct prepe	osition: "The keys are the drawer."
a) in b) on	c) at d) beside
34. Which question form	correctly corresponds to the statement: "He
is learning French"?	
a) Does he learn Frenc	n? b) Is he learning French?
c) Did he learn French	d) Has he learned French?
35. Transform the stateme	nt "They have completed the assignment"
into a question.	
a) Did they complete the	e assignment?
b) Have they complete	d the assignment?

c) Do they complete the assignment?d) Had they completed the assignment?36. What is the correct question form of: "She conference next week"?	will attend the
a) Will she attend the conference next week?	
b) Is she attending the conference next week?	
d) Has she attended the conference next week?	
37. Which sentence correctly demonstrates subject-ve	erb agreement?
a) The list of items are on the table.	agreement.
b) The bouquet of flowers smell lovely.	
c) The team of scientists is working on the project	t.
d) The collection of paintings were sold.	
38. Which of the following words contains a prefix?	
a) Running b) Unlikely c) Growing	d) Singing
39. Which prefix means "before" or "prior to"?	1) D
a) Dis- b) Pre- c) Mis-	d) Re-
40. which word does not have a prefix?	d) Careful
41 What suffix in the word "childish" implies "character	istic of"?
a) $-\text{ness}$ b) $-\text{lv}$ c) $-\text{ish}$	d) -ment
42. Read the short text and tick the best answer given	below. (4)
Space exploration has expanded our understanding of t	he universe and led
to numerous technological advancements. Satellites la	unched into space
have improved global communication, weather	forecasting, and
navigation systems. Manned missions to the Moon an	d robotic missions
to Mars have provided valuable data about our solar	system. However,
space missions are costly and involve significant	nsks. Despite the
explore distant planets and even search for extraterrestri	ial life in the future
What is one benefit of space exploration mentione	d in the passage?
a) It reduces air pollution.	a in the prostage.
b) It improves communication and navigation.	
c) It increases rainfall.	
d) It decreases global population.	
43. What have missions to the Moon and Mars provid	ed?
a) Fuel for spaceships	
b) Maps of galaxies	
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- c) Valuable data about the solar system
- d) Satellite images of Earth
- 44. Why is space exploration considered challenging?
 - a) It requires a lot of land. b) It is banned in many countries.
 - c) It is costly and risky. d) It is not supported by scientists.
- 45. What is a future goal of space programs according to the passage?
 - a) To stop deforestation
 - b) To increase rainfall on Earth
 - c) To explore distant planets and search for life
 - d) To reduce the size of the Moon

MATHEMATICS [30 Marks]

46.	The point (a,0)), $(0,b)$ and $(1,1)$	are collinear if	
	a) $a + b = ab$	b) $a - b = ab c) b$	b - a = ab	d) $a + b + ab = 0$
47.	The area of ci	ircle centred at (1	,2) and passing t	hrough (4,6) is
	a) 5π	b) 25π	c) 10π	d) 15π
48.	Angle betwee	en the two lines x	= 0 and $y = 0$ is	
	a) 45°	b) 90°	c) 180°	d) a
49.	The area of a	triangle whose si	des are along the	e lines $x = 0, y =$
	0 and $4x + 5y$	v = 20 is	C	
	a) 20 sq. unit		b) 10 sq. unit	
	c) 1/10 sq. un	it	d) 1/20 sq. uni	t
50.	The set of ma	le student in Unit	ed Universal sch	nool is
	a) singleton so	et b) empty set	c) super set	d) sub set
51.	The distance	between the para	llel lines 5x – 12	2y + 65 = 0 and
	10x - 24y - 7	78 = 0 is		•
	a) 2	b) 8	c) 16	d) 0
52.	Ram sells 10	articles for the same	me money he pa	id for 12
	articles. What	t is his gain perce	nt?	
	a) 12%	b) 20%	c) 25%	d) 30%
53.	If a-b=1, b-c=	=2 and c-a=d, what	t is the value of	d
	a) -3	b) -1	c) 1	d) 3
54.	If x is 300 per	rcent of 25 and y	is 25 percent mo	ore than 40, the
	x is what perc	cent of y?	-	
	a) 50%	b) 75%	c) 66.5%	d) 150%
55.	If $f(x)=2x^2-7$	and $g(x)=9x+2$, the second s	hen $fog(x) =$	
	a) $2(9x+2)^2-7$	b) $9(2x^2-7)+2$	c) $6x^2 - 11$	d) None

56.	The sum of two numbers is 16 and sum of their squa			squares is 130.	
	Find the num	bers?			
	a) 9, 7	b) 8, 8	c) 10, 6	d) 11, 5	
57.	If $\sqrt{2} \sin\theta = 1$, which of the followings is not the value of θ ?				
	a) 45°	b) 135°	c) 225°	d) 405°	
58.	The populatio	on of a village was	7200. 5% of the	population	
	was migrated and 2% died due to different causes within				
	year. What w	ould be the popula	tion of the villag	ge after a year?	
	a) 6669	b) 6966	c) 6696	d) 9666	
59.	If $x^2 - y^2 = 28$ and $x - y = 8$, what is the average of x and				
	a) 1.75	b) 3.5	c) 7	d) 8	
60.	$0 < a < b < 1$. If $x = \sqrt{(a + b)}$ and $y = \sqrt{a} + \sqrt{b}$, then				
	a) x > y	b) x < y	c) $x = y$	d) none	
61.	If one type of rice costing Rs. 20 per kg and another type of				
	rice costing Rs. 17 per kg are mixed in the ratio 1:2, what is				
	the cost of the mixture per kg?				
	a) Rs. 17.50	b) Rs. 18	c) Rs. 18.50	d) Rs. 19	
62. If $\sin \theta + \csc \theta = 2$ then $\sin^2 \theta + \csc^2 \theta$ is equal				l to	
	a) 1	b) 4	c) 2	d) 9	
63.	If the equation $x^2 + 2(k+2)x + 9k = 0$ has equal roots, then the				
	value of k is				
	a) 1	b) 2	c) 3	d) 0	
64.	. If $A \cap B = \emptyset$, then:				
	a) $A \subset \overline{B}$	b) $A \subset B$	c) $B \subset A$	d) $\overline{B} \subset \overline{A}$	
65.	. The compound interest on a sum of money in 2 years at 5				
	will be Rs. 120 more than the simple interest. Find the sum.				
	a) Rs. 40,000	b) Rs. 45,000	c) Rs. 48,000	d) Rs. 50,000	
66.	If the equation	f the equation $x^2 + (k+2)x + 2k = 0$ has equal roots, find			
	a) 1	b) 2	c) 3	d) 4	
67.	Geometric me	ean between a and	b is:		
	a) ab	b) √ab	c) a^2b^2	d) None	
68.	Sum of the sq	uares of first 'n' na	irst 'n' natural numbers is:		
	a) $n(n+1)(2n+1)/6$		b) $n(n+1)(2n+1)$		
	c) $n(n^2+1)/(n+1)$		d) $n/2 [2a+(n-1)d]$		
69.	If $(4, y)$ divides the join of $(6, -1)$ and $(3, 2)$ in the ratio 2:1, the				
	the value of y	v is:			
	a) 2	b) 8	c) 1	d) ½	

70. Two lines $y = m_1 x + c_1$ and $y = m_2 x + c_2$ will be co-incident if: a) $m_1/m_2 : m_2 = 1$ b) $m_1/m_2 = c_1/c_2 = 1$ c) $m_1/m_2 = 1$ d) $m_1m_2 = -1$ 71. If $2x^3 = 54$, what is the value of $3x^2$? a) 9 b) 6 c) 27 d) 81 72. The value of $\alpha^2\beta + \alpha\beta^2$ if α and β are the roots of the equation $3x^2 - 2x$ -6=0.a) -5/2 b) -4/3 c) -7/2 d) -9/2 73. If A and B are mutually exclusive events, then: a) $P(A \cup B) = P(A) + P(B) - P(A \cap B)$ b) $P(A \cup B) = P(A) + P(B)$ c) $P(A \cup B) = P(A) \times P(B/A)$ d) None 74. What is 10% of 20% of 30%? a) 0.006 % b) 0.6% c) 6% d) 60% 75. If a sum of money will be half much again as it is in 10 years the rate of interest is... a) 5% b) 10% c) 15% d) neither one NEPALI [25 Marks] 2082 (2) 76. आगन्त्क शब्द कुन होइन ? क) नजर ख) नम्ना ग) दर्जन घ) साँप 77. 'सङ्कीर्ण' को विपरीतार्थी शब्द के हो ?

क) उदार ख) कुरुप ग) दुर्गम घ) साँघुरो

78. अनेकार्थी शब्द कुन होइन ?

क) सार ख) दाल ग) काल घ) हार79. तलका मध्ये कुन तद्भव शब्द हो ?

क) ईर्ष्या
 ख) कृष्ण
 ग) चाँदनी
 घ) हीनता
 80. 'इतिश्री गर्नु' टुक्काको अर्थ के हो ?

क) सुरु गर्नु ख) अन्त्य गर्नु ग) आराम गर्नु घ) विश्राम गर्नु 81. कवि रामप्रसाद ज्ञवालीको जन्म कहिले भएको हो ?

क) वि. सं. २०२३
 ख) वि. सं. २०२४
 ग) वि. सं. २०२६
 घ) वि. सं. २०२६

82. 'उज्यालो यात्रा' कविता कुन छन्दमा लेखिएको छ ? ख) मन्दाकान्ता ग) अनुष्ट्प घ) तोटक क) शिखरिणी 83. अनुष्टुप छन्दमा एक पाउमा कति अक्षर हुन्छन् ? क) ६ अक्षर ख) ७ अक्षर ग) ९ अक्षर घ) ८ अक्षर 84. लक्ष्मीप्रसाद देवकोटा डा. के आई सिंहको मन्त्रीमण्डलमा कुन मन्त्री भएका थिए ? क) सूचना तथा सञ्चार ख) शिक्षा ग) खेलकुद घ) अर्थ तथा वाणिज्य 85. तलका मध्ये लक्ष्मीप्रसाद देवकोटाले लेखेको महाकाव्य कुन हो ? क) मुनामदन ख) कुञ्जिनी
 ग) लुनी घ) शाकुन्तल 86. देवकोटाले ६० घण्टामा लेखेको महाकाव्य कुन हो ? क) सुलोचना ख) प्रमिथस ग) वनकुसुमघ) महाराणा प्रताप 87.'शत्रु' कथाका पात्र कृष्ण राय गाउँका को थिए ? क) मुखिया ख) मध्यस्थकर्ता ग) नेता घ) सदस्य 88. 'शत्रु' कथाका पात्र कृष्ण राय कति वर्षका थिए ? क) ४३ वर्ष ख) ४४ वर्ष ग) ४५ वर्ष घ) ४६ वर्ष 89. सन्द्क रुइतले कति सालमा प्रवेशिका उत्तीर्ण गरेका थिए ? क) वि. सं. २०२४ ख) वि. सं. २०२४ ग) वि. सं. २०२६ घ) वि. सं. २०२७ 90. 'गायक' शब्दको निर्माण प्रकिया दिइएका मध्ये कुन हो ? a) गाउ+अक ख) गा+यक ग) गै+अक घी गीत+अक 91. 'कर्तव्य' कथाका पात्र गङ्गाधर के नाउँले प्रसिद्ध थिए ? क) जमिनदारख) जमदारग) जर्नेलघ) मुखिया बा 92. 'कर्तव्य' कथाका पात्र गङ्गाधरले लगालग कति दिन ज्वरो आएर संसार छोडे ? क) द दिन ख) ९ दिन ग) १० दिन घ) ११ दिन 93. पाब्लो पिकासोले 'पिकडोर' नामको आफ्नो पहिलो चित्र कति वर्षको हुँदा तयार पारेका थिए ? क) द वर्ष ख) १० वर्ष ग) ९ वर्ष घ) ११ वर्ष 94. पाब्लो पिकासोका सन् १८९० तिरका चित्रमा कुन शैलीको प्रयोग गरिन्थ्यो ? क) स्वच्छन्दतावादी शैली ख) प्रगतिवादी शैली ग) यथार्थवादी शैली घ) प्रयोगवादी शैली

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95. विश्वेश्वरप्रसाद कोइराला कस्ता साहित्यकार हन् ? क) प्रगतिवादी ख) मनोविश्लेषणवादी ग) स्वछन्दतावादी घ) भौतिकवादी 96. पाब्लो पिकासोले बनाएको 'द ग्एर्निका चित्र' लाई के विरोधी चित्र मानिन्छ ? क) गरिबी विरोधी ख) धनी विरोधी ग) शान्ति विरोधी घ) युद्ध विरोधी 97. 'घरको माया' एकाइकीको सहायक पात्र को हो ? क) लाल ख) जमान ग) बतासे घ) कान्ह्रो 98. भैरव अर्यालले लेखेको कृति कुन हो ? क) दाडिमको रुखनेर ख)नासो ग) लक्ष्मी निबन्ध सङग्रह घ) इतिश्री 99. आयुर्वेद उपचारको विधिअनुसार रोगको उपचार गर्ने व्यक्तिलाई के भनिन्छ ? ख) वैद्य ग) भाँकी घ) कुनै पनि होइन क) डाक्टर 100. 'नेपाली भएपछि नेपाललाई माया गर्नुपर्छ ।' यस वाक्यमा 'माया' क्न पदवर्गमा पर्छ ? क) नाम ख) विशेषण ग) सर्वनाम घ) कियाविशेषण



Model Question for Entrance Examination-2082-3 Faculties of Management/Humanities/Law

Time: 2 HrsFull Marks: 100Pass Marks: 40

Choose the best option and cross-mark the right box available in the answer sheet.

ENGLISH [45 Marks]

- 1. What is the passive form of "The chef prepared the meal"?
 - a) The meal was prepared by the chef.
 - b) The meal is prepared by the chef.
 - c) The meal has been prepared by the chef.
 - d) The meal prepares by the chef.
- 2. Which sentence is in passive voice?
 - a) The students solved the problem.
 - b) The problem was solved by the students.
 - c) The teacher explains the lesson.
 - d) They are playing football.
- 3. Choose the correct passive form: "They will announce the results tomorrow."
 - a) The results will be announced tomorrow.
 - b) The results are announced tomorrow.
 - c) The results were announced tomorrow.
 - d) The results have been announced tomorrow.
- 4. Passive form of "Someone has stolen my bicycle."
 - a) My bicycle has been stolen. b) My bicycle was stolen.
 - c) My bicycle is stolen. d) My bicycle had been stolen.
- 5. Indirect speech of "She said, 'I am reading a book.""
 - a) She said that she was reading a book.
 - b) She said that she is reading a book.
 - c) She said that she read a book.
 - d) She said that she has been reading a book.

6.	. Choose the correct indirect speech: "He said, 'I will call you tomorrow "				
	a) He said that h	e would call r	ne the	next da	av.
	b) He said that h	e will call me	tomor	row.	
	c) He said that h	e would call i	ne tom	orrow	
	d) He said that h	e will call me	the ne	xt day	
7.	Indirect speech of	of "They said.	'We ha	ave co	mpleted the project."
	a) They said that they had completed the project.				
	b) They said that	t they have co	mplete	d the p	project.
	c) They said that	they comple	ted the	projec	t.
	d) They said that	t they were co	mpleti	ng the	project.
8.	Which is correct	indirect spee	ch? "Jo	hn sai	d, 'I can swim.'"
	a) John said that	he could swin	m. b) John	said that he can swim.
	c) John said that	he swam.	d	l) John	said that he has swum.
9.	Which sentence	uses a causati	ive vert	o?	
	a) She eats break	fast every mo	orning.		
	b) He made his c	laughter clear	n her ro	om.	
	c) They walked	to the park.			
	d) The sun rises	in the east.		~ 4	
10.	Choose the corre	ect causative f	form: "	She	_ her hair cut
	a) made	b) had	c) let		d) got
11	Which contonco	bog o concetiv	vo vorb	າ	u) 501
11.	a) I had washed	my car	b) I ha	: d mv	car washed
	c) The car is clea	an	d) The	e car n	eeds washing
12	Which is the cor	rect causative	senten	nce?	eeds washing.
12.	a) She got her br	other to fix th	e comi	nuter	
	b) She fixed the	computer by	her bro	ther.	
	c) She fixes the	computer hers	self.		
	d) The computer	was fixing b	y her b	rother.	
13.	Which modal ex	presses possil	bility?		
	a) must	b) might	c) sho	uld	d) will
14.	Choose the mode	al for advice:			
	a) can	b) shall	c) sho	uld	d) would
15.	Which modal is	used for past	ability	?	
	a) can	b) could	c) may	y	d) might
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16.	Which modal ex	presses necessi	ty?			
	a) must	b) could c) might	d) need to	C	
17.	What is an exam	ple of zero con	ditional?			
	a) If you freeze water, it turns to ice.					
	b) If I go out, I will buy milk.					
	c) If I had money, I would travel. d) If she called I would answer					
10	u) II she caneu, I			10		
18.	a) If I see him I'	ple of second c	onditional			
	b) If I were rich.	I would travel	the world.			
	c) If it had rained	d, we would have	ve stayed	home.		
	d) If you mix red	l and blue, you	get purple			
19.	What is an exam	ple of third cor	ditional?			
	a) If you study, y	ou'll pass.			_	
	b) If I had left ea	rlier, I wouldn'	t have mis	ssed the tra	in.	
	d) If I were you	I'd apologize	IC.			
20	What is an exam	nle of first con	ditional?			
20.	a) If you heat ice	e, it melts.	annonai.			
	b) If you study h	ard, you will pa	ass the exa	am.		
	c) If I had a car,	I'd drive to wor	·k.			
	d) If they had inv	vited me, I wou	ld have go	one.		
21.	What is the syno	nym for "exhau	isted"?	. 1	1) A (*	
~~	a) Tiredb) Energ	getic	c) F	resh	d) Active	
22.	What is the anton	nym of "expand	1"? a) (Trouv	d) Extand	
22	a) increase	D) Contract	C) ()	now	u) Exteriu	
23.	a) Kind	b) Cruel	c) N	lean	d) Selfish	
24	What is the Anto	nym of "vague	."?	Iouii	a) Semish	
21.	a) Clear	b) Unclear	с) Н	Iazy	d) Fuzzy	
25.	What does "Piec	e of cake" mea	n?	-	•	
	a) Something dif	ficult	b) Somet	hing easy		
	c) A delicious de	essert	d) A part	of a cake		
26.	What does "Bite	the bullet" mea	an?	_		
	a) To avoid som	ething	b) To end	dure a pain	ful situation	
	c) To eat quickly	7	d) To lau	igh loudly		
		10	07			

27.	7. What does "Spill the beans" mean?				
	a) To reveal a se	cret	b) To clean up		
	c) To cook beans	8	d) To make a m	less	
28.	What does "Hit t	the books" mean	n?		
	a) To study hard		b) To throw boo	oks	
	c) To organize b	ooks	d) To buy book	S	
29.	Which sentence	uses "an" corre	ctly?		
	a) She is an hone	est person.	b) He is an Euro	opean.	
	c) He works in a	n university.	d) I saw an unic	corn.	
30.	Choose the corre	ect article: "She	is MBA gra	duate."	
	a) a	b) an	c) the	d) no article	
31.	Which sentence	is correct witho	out an article?		
	a) He is presiden	it of the club.	b) She is engine	eer.	
	c) I saw movie y	esterday.	d) They went to	school.	
32.	Choose the corre	ect determiner:	"I don't have	_ money."	
	a) many	b) much	c) few	d) a few	
33.	Correct prepositi	ion: "She is alle	rgic cats."	1) (
	a) to	b) with	c) of	d) for	
34.	Fill in: "He succ	eeded passi	ing the exam."	1) 1	
	a) in	b) at c) on	d) by	
35.	Correct prepositi	ion: "The book	is the shelf.'	'	
	a) in	b) on	c) at	d) under	
36.	Question form o	f "She has a car	."	2	
	a) Does she have	e a car?	b) Has she a car	[?]	
27	C) Do sile liave a		u) is she have a		
37.	which is the cor	rect question of	h) Did they play	soccer?	
	c) Are they play	ing soccer?	d) Do they play	soccer?	
38	Question for: "H	a will arrive at	8 PM "	500001.	
56.	a) When will he	arrive?	b) When does h	e arrive?	
	c) When he will	arrive?	d) When is he a	rriving?	
39.	Which word has	a prefix meaning	ng 'not'?	U	
	a) Unhappy	b) Rerun	c) Preview	d) Polygamy	
40.	Which suffix me	ans 'full of'?	, ,		
	a) –less	b) –ful	c) –ness	d) -ment	

41. Which word contains a suffix? b) Hopeful c) Mistake a) Replay d) Under 42. Which relative clause is correct? a) The man which lives next door is a doctor. b) The man who lives next door is a doctor. c) The man he lives next door is a doctor. d) The man lives next door is a doctor. 43. Combine using a relative clause: "The book is on the table. It is mine." a) The book which is on the table is mine. b) The book on the table is mine. c) The book is on the table that is mine. d) The book, it is on the table, is mine. 44. Choose the correct verb: "The list of items on the desk." a) is b) are c) were d) have 45. His behavior seems quite enigmatic. What does the underlined word mean? a. Mysterious b. Optimistic c. Irritating d. Harmful **MATHEMATICS** [30 Marks] 46. If $f(x) = 2x^2 - 7$ and g(x) = 9x + 2, then fog(x) = 9x + 2a) $2(9x + 2)^2 - 7$ b) $9(2x^2 - 7) + 2$ c) 6x² - 11 d) None 47. There would be a loss of 15% if a pen is sold for Rs.51. What should be selling price to gain 20%? b) Rs.80 a) Rs.84 c) Rs.72 d) Rs.60 48. A certain fraction becomes 2 when 7 is added to its numerator and 1 when 2 is subtracted from denominator. What is the fraction? a) 4/5 b) 3/5 c) 4/7d) 3/7 49. If a, b, c are three mutually perpendicular unit vectors, then |a + b|+ c is equal to: d) √3 a) 1 b) 3 c) $2\sqrt{3}$ 50. If two circles touch, the point of contact lies on a: c) parallelogram d) None a) circle b) square 51. A sum of money is divided between Mary and David in the ratio 5:8. If Mary's share is Rs. 225, then the total amount of money will be: a) 300 b) 400 c) 585 d) None

52.	A dealer gains	s the selling pri	ice of 10 radi	o sets by selling 6 sets.
	His percentage	e profit will be		
	a) 10%	b) 15%	c) 20%	d) None
53	. A father is	2 times as old	as his son. 10	5 years ago the age of the
	father was three	ee times the ag	e of the son	what is the present age of
	the father?	C		
	a) 64 years	b) 10 years	c) 80 years	d) None
54.	The cost of car	rpeting a room	at Rs. 50 per	square meter is Rs. 1000.
	Find the breat	h of the room,	if it's length i	is 5 m.
	a) 2 m b	o) 3 m	c) 2.5 m	d) 4 m
55.	The market pr	rice of a watch	is Rs. 640. W	/hat is the selling price if
	a discount of 1	15% is allowed	?	
	a) Rs. 736	b) Rs. 544	c) Rs. 625	d) Rs. 525
56	. The angle of e	elevation of the	top of a tree	at a point 15 m from the
	tree is 30°. Fin	nd the foot of the	he tree	-
	a) 8.25 m	b) 8.66 m	c) 9.2 m	d) 9.6 m
57	. A garden is 2:	5.50m wide and	d 35 m long.	What is its perimeter?
	a) 892.5 m	b) 121 m	c) 105m	d) 70 m
58	. A quadrilatera	al with all sides	s equal is:	
	a) parallelogra	am b) square	c) rectangle	d) rhombus
59	. What is the p	robability of d	rawing a hear	rt or an ace from a deck
	of 52 cards?			
	a) 26/52	b) 4/13	c) 1/52	d) 2/13
60.	Unit matrix is	s not a		
	a) Scalar matr	ix b) Diagona	l matrix c) S	quare matrix d) Null
	matrix			
61.	If A and B are	square matrice	es of the same	e order, which of the
	following state	ements may no	t be true?	
	a) AB is defin	ed	b) B.	A is defined
	c) Order of Al	B and BA are s	ame d) A	$\mathbf{B} = \mathbf{B}\mathbf{A}$
62	. If one type of	rice costing Re	s. 20 per kg a	nd another type of rice
	costing Rs. 17	kg are mixed	in the ratio 1	:2, what is the cost of the
	mixture per kg	g?		
	a) Rs. 17.50	b) Rs. 18	c) Rs. 18.50	d) Rs. 19
63	. If the point (x	x,2) is equidista	ant from (8,-2	2) and (2,-2), find the
	value of x.			
	a) 3	b) 4	c) 5	d) 6

64. If the range and co-domain of a function are equal, then the					
	function is ca	lled			
	a) onto	b) one-to on	e c) into	d) None	;
65	. If 120% of 'a'	' is equal to 80	% of 'b', wh	ich of the fo	llowing is
	equal to a+b?				
	a) 1.5a	b) 2a	c) 2.5a	d) 3a	
66	. If $a - b = 1, b$	- $c = 2$ and c -	a = d, what	is the value	of d
	a) -3	b) -1	c) 1	d) 3	
67.	From 1980 to	1990, Michae	el's weight in	ncreased by 2	25%. If his
	weight was 8	0 kilograms in	1990. What	t was it in 19	80?
	a) 1.75W	b) 1.25 W	c) 1.20W	d) 0.80 W	
68	. The average	of 10 numbers	is -10. If th	e sum of six	of them is
	100, what is t	he average of	the other for	ur?	
	a) -100	b) -50	c) 0	d) 50	
69	. What is the la	argest prime fa	ctor of 255	?	
	a) 5	b) 15	c) 17	d) 51	
70	. If 120% of a	is equal to 80%	% of b, whic	h of the follo	owing is equal
	to a+b?	_			
	a) 1.5a	b) 2a	c) 2.5a	d) 3a	
71.	Father is 5 tin	nes the son. In	5 years tim	e he will be	thrice as much
	as his son. Fin	nd the son age			
	a) 6	b) 5	c) 8	d) 10	
72	. When an artic	cle is sold for	Rs. 2,000 th	ere is a loss o	of 10%. To
	earn a gain of	10% the artic	le must be s	old for	
	a) Rs. 2444.4	4 b) Rs. 242	0 c) F	Rs. 300	d) Rs. 60
73	. The simple in	terest on Rs. 6	500 at 6% fo	r six month i	is
	a) Rs. 218	b) Rs. 21.8	30 c) l	Rs. 35	d) Rs. 18
74	. In sum of Rs.	5000 became	Rs. 6000 in	3 years at a	certain te of
	compound int	terest, what wi	ll the sum b	e in 6 years	
	a) Rs. 7200	b) Rs.1100) c) F	ks. 7000	d) Rs. 6600
75.	Salary was fin	st increased b	y 10% and t	hen decrease	d by 10%.
	What is the to	otal percentage	change in s	alary?	-
	a) 2.2%	b)1.5%	c)	1%	d) 3%

NEPALI [25 Marks] 2082 (3) 76. 'नन्दन' शब्दको अर्थ के हो ? क) शत्रुता
 ख) स्वर्गको बगैँचा
 ग) वास्ना
 घ) आकर्षक 77. 'घरभगडा' कुन विषय वस्तुमा आधारित कथा हो ? क) वर्णनात्मक ख) भावनात्मक ग) ऐतिहासिक घ) व्यङ्गयात्मक 78. 'उज्यालो यात्रा' कवितामा प्रयोग गरिएको छन्द कुन हो ? ख) अनुष्टुप ग) शिखरिणी घ) मन्दाक्रान्ता क) लोक 79. 'तिलान्जली' शब्दको अर्थ के हो? क) दया ख) प्रेम ग) त्याग घ) कविता 80. मनोवादमा कुन कथन शैली उपयोग गरिएको छ ? क) प्रथम पुरुष ख) द्वितीय पुरुष ग) तृतीय पुरुष घ) क्नै पनि होइन 81. संसारको सबैभन्दा महँगोमा बिकी भएको चित्र 'वुमन अफ अल्जियर्स' कति मिलियन डलरमा बिकी भएको थियो ? क) १८० मिलियन डलर ख) १६० मिलियन डलर ग) १४० डलर घ) १७० डलर 82. 'घरको माथि चरा छ ।' वाक्यमा 'माथि' कुन पदवर्गमा पर्छ ? ख) विशेषण ग) सर्वनाम घ) कियाविशेषण क) नाम 83. 'मनसाय' शब्दको पर्यायवाची शब्द कुन हो ? क) कागज ख) कपडा ग) भण्डा घ) विचार 84. 'मेरो भाइ बजार गयो।' वाक्यमा विधेय पद कुन हो ? ग) क ख) गयो क) मेरो घ) बजार 85. 'ऊ पोखरीमा खस्यो ।' वाक्यमा 'पोखरीमा' कुन कारक हो ? क) करणख) अपादानग) अधिकरण घ) कर्म 86. मेरो छोरो किनमेल गर्न बजार गयो।' वाक्यमा उद्देश्य पद कुन हो ? क) मेरो ख) गयो ग) छोरो घ) बजार 87. 'म विद्यालय जान्छ ।' वाक्य कुन प्रकारको हो ? क) सामान्यार्थक ख) इच्छार्थक ग) आज्ञार्थक घ) सङ्केतार्थक 88. 'कानमा तेल हाल्न्' शबदको अर्थ के हो? क) चुप लागेर बस्नु ख) अजर ग) निरोगी घ) दीर्घजिवी 89. तलका मध्ये कुन अनेकार्थी शब्द होइन ? क) कर ख) तर ग) भात घ) रस

90. डाक्टर दम्पतीले कस्तो कामदारको अपेक्षा गरेका थिए ? क) इमान्दारीका साथ काम गरिदिने ख) ठग ग) दयाल् घ) कामको बिचार नगर्ने 91. 'आध्निक' शब्दको विग्रह के हो ? क) अध्ना+ ईक ख) आध + इक ग) अधुना + इक घ) आधा + ईक 92. 'सीता आई ।' वाक्यमा 'सीता' कुन पदवर्गमा पर्छ ? क) नाम
 ख) विशेषण
 ग) सर्वनाम
 घ) कियाविशेषण 93. 'सरसहयोग' शब्द कुन समास हो? क) द्वित्व ख) बहुब्रिही ग) कर्मधार्य घ) कुनै पनि होइन् 94. 'दाइले भाइलाई बजार पठाउनु भयो।' यो कुन वाक्य हो ? क) प्रेरणार्थक ख) प्रत्यक्ष कथन ग) अकरण वाक्य घ) मिश्र वाक्य 95. 'गाउँमाथि एउटा कविता' का लेखक को हुन् ? क) रामप्रसाद ज्ञवाली
 ख) दिनेश अधिकारी
 ग) लक्ष्मीप्रसाद देवकोटा
 घ) भुपिन 96. 'घरको माया' एकाङ्कीमा सबैभन्दा बढी माया कस्को हन्पर्छ भनिएको छ ? क) आमाको
 ख) बाबाको
 ग) राष्ट्रको घ) साथीको 97. 'तिमी राम्रो काम गर।' वाक्य कुन प्रकारको हो ? क) सामान्यार्थक ख) इच्छार्थक ग) आज्ञार्थक **घ) अभ्यस्त** 98. सन्दुक रुइतकी बहिनीको निधन कुन रोगबाट भयो ? क) क्षयरोगख) काडापखला ग) दाद्राघ) ठेउला 99. सन्दुक रुइतका कति सन्तान छन् ? क) चार ख) तीन ग) पाँच घ) एक 100. 'शत्र' कथाका प्रमुख पात्र को हुन् ? क) रामे ख) कृष्ण राय ग) व्यापारी घ) साह



Model Question for Entrance Examination-2082-4 Faculties of Management/Humanities/Law Time: 2 Hrs Full Marks: 100 Pass Marks: 40

Choose the best option and cross-mark the right box available in the answer sheet.

ENGLISH [45 Marks]

1.	She not only g	gave us a fine din	ner	dro	ove us back
	home.				
	(a) but	(b) but also	(c) also	(d) :	as
2.	the	ere is no demand	for this type of be	ook, I	cannot
	place an order				
	(a) Since	(b) As	(c) Because of	(d)	Both a and b
3.	If you spoke le	ess and listened r	nore, you		more
	aware of what	people really fel	t.		
	(a) are being	(b) would be	(c) be	(d)	being
4.	The laptop wa	s on but nobody	it.		
	(a) is using	(b) wa	s using		
	(c) has been u	sing (d) ha	ad been using		
5.	She	visit her grand	parents' house du	ring h	olidays.
	(a) dare to	(b) ought to	(c) can	(d) :	might
6.	If I get the req	uired assistance,	I pa	ss the	exam in the
	0	. ,	-		
	first attempt.	, , , , , , , , , , , , , , , , , , ,	-		
	first attempt. (a) will	(b) can not	(c) might	(d)	could
7.	first attempt. (a) will He	(b) can not be shy during	(c) might his college days.	(d)	could
7.	first attempt. (a) will He(a) used to	(b) can notbe shy during(b) need to	(c) mighthis college days.(c) ought to	(d) (d)	could could
7. 8.	first attempt. (a) will He(a) used to The correct pa	(b) can not be shy during (b) need to assive form of "C	(c) might his college days. (c) ought to an you accomplis	(d) (d) h it ne	could could ow?"
7. 8.	first attempt. (a) will He(a) used to The correct pa (a) Can it bee	(b) can not be shy during (b) need to assive form of "C on accomplished b	(c) mighthis college days.(c) ought toan you accomplisby you now?	(d) (d) h it ne	could could ow?"
7. 8.	first attempt. (a) will He(a) used to The correct pa (a) Can it bee (b) Could it b	(b) can not be shy during (b) need to assive form of "C on accomplished l eing accomplished	(c) might his college days. (c) ought to an you accomplis by you now? ed by you now?	(d) (d) h it no	could could ow?"
7. 8.	first attempt. (a) will He(a) used to The correct pa (a) Can it bee (b) Could it b (c) Can it be a	(b) can not be shy during (b) need to assive form of "C on accomplished l eing accomplished accomplished by	(c) might his college days. (c) ought to an you accomplis by you now? ed by you now? you now?	(d) (d) h it n	could could ow?"
7. 8.	 first attempt. (a) will He (a) used to The correct pa (a) Can it bee (b) Could it b (c) Can it be a (d) Could it b 	(b) can not be shy during (b) need to assive form of "C accomplished by accomplished by e accomplished by	 (c) might his college days. (c) ought to an you accomplis by you now? ed by you now? you now? you now? by you now? 	(d) (d) h it n	could could ow?"
 7. 8. 9. 	first attempt. (a) will He(a) used to The correct pa (a) Can it bee (b) Could it b (c) Can it be a (d) Could it b If you	(b) can not be shy during (b) need to assive form of "C accomplished l accomplished by e accomplished by Lied to me befor	(c) might his college days. (c) ought to an you accomplis by you now? ed by you now? you now? by you now? re, I would have	(d) (d) h it n	could could ow?"
7. 8. 9.	first attempt. (a) will He(a) used to The correct pa (a) Can it bee (b) Could it b (c) Can it be a (d) Could it b If youtoday.	(b) can not be shy during (b) need to assive form of "C on accomplished l eing accomplished accomplished by e accomplished by lied to me befor	(c) might his college days. (c) ought to an you accomplis by you now? ed by you now? you now? you now? oy you now? re, I would have	(d) (d) h it no	could could ow?"
 7. 8. 9. 	first attempt. (a) will He(a) used to The correct pa (a) Can it bee (b) Could it b (c) Can it be a (d) Could it b If youtoday. (a) have- trust	(b) can not be shy during (b) need to assive form of "C accomplished by accomplished by e accomplished by e accomplished by e accomplished by e accomplished by e accomplished by by a before ed (b) had	(c) might his college days. (c) ought to an you accomplis by you now? ed by you now? you now? you now? by you now? re, I would have	(d) (d) h it no	could could ow?"

10.	The correct passive form of '	"Let her write an inspirational story."			
	(a) Let an inspirational story been written by her.				
	(b) Let an inspirational stor	ry written her.			
	(c) Let an inspirational stor	ry be written by her.			
	(d) Let an inspirational stor	ry being written by her.			
11.	Choose the correct anton	nym of the Heterogeneous:			
	(a) Colourful (b) Differen	nt (c) Similar (d) Homogeneous			
12.	She made her boyfriend	an IPhone.			
	(a) bought (b) buy	(c) to buy (d) buying			
13.	Shall I got her office dress .	?			
	(a) washed (b) wash	(c) to wash (d) washing			
14.	Donald Trump	in the White House.			
	(a) has been living	(b) used to live			
	(c) lives	(d) is living			
15.	Choose the correct anto	onym of Transmit.			
	(a) Televise (b) Withho	old (c) Reply (d) Show			
16.	He has justir	n the store. He has to purchase lots			
	of groceries.				
	0				
	(a) arrived (b) been	(c) went (d) go			
17.	(a) arrived (b) been The minister will be going a	(c) went (d) go abroad the end of this			
17.	(a) arrived (b) been The minister will be going a month.	(c) went (d) go abroad the end of this			
17.	(a) arrived (b) beenThe minister will be going a month.(a) by (b) in	(c) went (d) go abroad the end of this (c) on (d) at			
17. 18.	 (a) arrived (b) been The minister will be going a month. (a) by (b) in If we an office in 7 	(c) went (d) go abroad the end of this (c) on (d) at Tokyo, we'd both			
17. 18.	 (a) arrived (b) been The minister will be going a month. (a) by (b) in If we an office in 7 (a) open - benefited 	(c) went(d) goabroad the end of this(c) on(d) atTokyo, we'd both(b) opened – benefited			
17. 18.	 (a) arrived (b) been The minister will be going a month. (a) by (b) in If we an office in 7 (a) open - benefited (c) opened - be benefited 	(c) went(d) goabroad the end of this(c) on(d) atTokyo, we'd both(b) opened – benefited(d) Show			
17. 18. 19.	 (a) arrived (b) been The minister will be going a month. (a) by (b) in If we an office in 7 (a) open - benefited (c) opened - be benefited Everyone 	(c) went(d) goabroadthe end of this(c) on(d) atTokyo, we'd both(b) opened – benefited.(d) Show.being acknowledged for their smart			
17.18.19.	 (a) arrived (b) been The minister will be going a month. (a) by (b) in If we an office in 7 (a) open - benefited (c) opened - be benefited Everyone	 (c) went (d) go abroad the end of this (c) on (d) at Tokyo, we'd both (b) opened – benefited (d) Show being acknowledged for their smart 			
17. 18. 19.	 (a) arrived (b) been The minister will be going a month. (a) by (b) in If we an office in 7 (a) open - benefited (c) opened - be benefited Everyoneattempts. (a) prefer 	(c) went(d) goabroadthe end of this(c) on(d) atTokyo, we'd both(b) opened – benefited(d) Showbeing acknowledged for their smart(b) prefers			
 17. 18. 19. 	 (a) arrived (b) been The minister will be going a month. (a) by (b) in If we an office in 7 (a) open - benefited (c) opened - be benefited Everyoneattempts. (a) prefer (c) is preferring 	 (c) went (d) go abroad the end of this (c) on (d) at Tokyo, we'd both (b) opened – benefited (d) Show being acknowledged for their smart (b) prefers (d) are preferred 			
 17. 18. 19. 20. 	 (a) arrived (b) been The minister will be going a month. (a) by (b) in If we an office in 7 (a) open - benefited (c) opened – be benefited Everyoneattempts. (a) prefer (c) is preferring Parshuram struggled very here 	 (c) went (d) go abroad the end of this (c) on (d) at Tokyo, we'd both (b) opened – benefited (d) Show being acknowledged for their smart (b) prefers (d) are preferred ard to be MLA in the last 			
17.18.19.20.	 (a) arrived (b) been The minister will be going a month. (a) by (b) in If we an office in 7 (a) open - benefited (c) opened – be benefited Everyone	 (c) went (d) go abroad the end of this (c) on (d) at Tokyo, we'd both (b) opened – benefited (d) Show being acknowledged for their smart (b) prefers (d) are preferred ard to be MLA in the last 			
17.18.19.20.	 (a) arrived (b) been The minister will be going a month. (a) by (b) in If we an office in 7 (a) open - benefited (c) opened - be benefited Everyoneattempts. (a) prefer (c) is preferring Parshuram struggled very helection. (a) the (b) a 	(c) went(d) goabroad			
 17. 18. 19. 20. 21. 	 (a) arrived (b) been The minister will be going a month. (a) by (b) in If we an office in 7 (a) open - benefited (c) opened - be benefited Everyoneattempts. (a) prefer (c) is preferring Parshuram struggled very h election. (a) the (b) a Find the meaning of the	 (c) went (d) go abroad the end of this (c) on (d) at Tokyo, we'd both (b) opened – benefited (d) Show being acknowledged for their smart (b) prefers (d) are preferred ard to be MLA in the last (c) an (d) no article e idiom "Let the grass grow under 			
 17. 18. 19. 20. 21. 	 (a) arrived (b) been The minister will be going a month. (a) by (b) in If we an office in 7 (a) open - benefited (c) opened – be benefited Everyone	 (c) went (d) go abroad the end of this (c) on (d) at Tokyo, we'd both (b) opened – benefited (d) Show being acknowledged for their smart (b) prefers (d) are preferred ard to be MLA in the last (c) an (d) no article e idiom "Let the grass grow under 			
 17. 18. 19. 20. 21. 	 (a) arrived (b) been The minister will be going a month. (a) by (b) in If we an office in 7 (a) open - benefited (c) opened - be benefited Everyoneattempts. (a) prefer (c) is preferring Parshuram struggled very helection. (a) the (b) a Find the meaning of the one's feet" (a) To remain idle 	 (c) went (d) go abroad the end of this (c) on (d) at Tokyo, we'd both (b) opened - benefited (d) Show being acknowledged for their smart (b) prefers (d) are preferred ard to be MLA in the last (c) an (d) no article e idiom "Let the grass grow under (b) To be trifled with 			

22. If you did your documentation electronically, you
paper.
(a) were saved (b) saved
(c) would save (d) would have saved article
(a) He said to the teacher that he may ask a question
(a) He said to the teacher that may he ask question.
(b) He asked the teacher if he might ask a question.
(c) He asked the teacher in he hight ask a question.
24. Find the meaning of the idiom "To get in hot water"
(a) to be in a confused state of mind
(h) to be so impatient as to take bath with hot water before it gets cool
(c) to enter waters heated by the sun
(d) to get into trouble
25is the synonym of "DELICATE".
(a) Sturdy (b) Fragile (c) Tough (d) Fragment
26is the synonym for "MEMORANDUM".
(a) Momentum (b) Massive (c) Extensive (d) Directive
27. Identify the meaning of the idiom 'Shedding Crocodile tears'
(a) be in trouble (b) insincere display of emotions
(c) be nervous (d) find the hidden meaning
28. A leader says, "A country cannot be peaceful until good education is provided to each child "
(a) A leader says that a country could not be peaceful until good
education is provided to each child.
(b) A leader says that a country cannot been peaceful until good education was provided to each child.
(c) A leader says that a country cannot peaceful until good
education will be provided to each child.
(d) A leader says that a country cannot be peaceful until good education is provided to each child.
29. Nancy and I [5%] go out for group studies together.
(a) never (b) frequently (c) occasionally (d) rarely
30. The correct reported speech of -I said to him, "Why are you working so hard?"
(a) I asked him why he was working so hard.
(b) I asked him why was he working so hard.
(c) I asked him why had he been working so hard.
116
110

	(d) I asked him why he had been working so hard.					
31.	Guess the meaning of the idiom "The inspector was					
	caught red handed."					
	(a) found	with hands t	ied			
(b) caught with red hands						
	(c) caught in the act of committing the crime					
	(d) quick	ly	· · · ·			
32.	We should	read Bhag	gavad Gita.			
	(a) a	(b) an	(c) the	(d)None of above		
33.	Pı	resident of the	United States	will be visiting Australia		
	next week.			C C		
	(a) a	(b) an	(c) the	(d) None		
34.	Sudha had	a maid servant	t the	kitchen.		
	(a) to clean	(b) cleaning	(c) clean	(d) cleaned		
35.	Pı	resident of the	United States	will be visiting Australia		
	next week.					
	(a) a	(b) an	(c) the	(d) None		
36.	The correct	passivization	of "They have	informed me, about their		
	late arrival.	,,				
	(a) I have ir	formed by the	em, about their	late arrival.		
	(b)I had inf	formed by the	n, about their l	ate arrival.		
	(c) I have b	een informed	by them, about	their late arrival.		
	(d)I had be	en informed b	y them, about	their late arrival.		
37.	Amit got hi	s Ipad	at the servi	ce center.		
• •	(a) to repair	r (b) repair	red (c) to b	e repaired (d) repairing	;	
38.	The teacher	f the	e students	on the bench as they	<i>.</i>	
	had come v	vithout home-	work.			
	(a) makes,	standing	(b) made, s	tand		
20	(c) made,	standing	(d) make, st	ood		
39.	Father divid	ded his proper	tytou	r sons.		
10	(a) between	(b) amon	g (c) of	(d) in		
40.	I have a per	n to write				
4.1	(a) with	(b) to	(c) by	(d) no preposition	i	
41.	1 ve just \dots	to	the snops. I've	to snop lots of things.		
40	(a) arrived	(b) been	(c) went	(a) go		
42.	\mathbf{I} will be go	away	the	e end of this week.		
	(a) by	(b) 1n	(c) on	(d) at		

43.	Everyone		being appreci	iated for their
	attempts.			
	(a) prefer	(b) prefers	(c) is preferring	(d) are preferred
44.	Her mother str	uggled very l	hard to be	MP in the last
	election.			

45. If you printed on both sides, you _____ paper.
(a) were saved (b) saved
(c) would save (d) would have saved

г

MATHEMATICS [30 Marks]

46.
$$Sin 3A = \frac{\sqrt{3}}{2}$$
, the value of sin 3A is
(a) $\frac{1}{2}$ (b) 0 (c) 1 (d) $\frac{\sqrt{3}}{2}$
47. Tan θ = Cot θ when the value of θ is
(a) 0° (b) 30° (c) 45° (d) 90°
48. The value of $\vec{a} \cdot \vec{b}$ when $\vec{a} \cdot = \begin{pmatrix} 3 \\ 2 \end{pmatrix}, \vec{b} = \begin{pmatrix} -2 \\ 3 \end{pmatrix}$ is
(a) 0 (b) 12 (c) -12 (d) 10
49. When Standard Deviation = 10, mean = 40, then the coefficient of
variation is
(a) 40% (b) 25% (c) 50% (d) 100%
50. If f (x) = 2x and g (x) = 3x + 2, the value of fog (1) is
(a) 20 (b) 15 (c) 5 (d) 10
51. The sum of two numbers is 40 and difference is 10. Find the
ratio of two numbers.
a) 5:4 b) 5:3 c) 3:2 d) 2:5
52. Matrix $\begin{pmatrix} -1 & 0 \\ 0 & 1 \end{pmatrix}$ is associated with
(a) reflection of x = y (b) reflection on x – axis

(c) reflection on line x = y (b) reflection on x = x.

53. Slope of line px + qy + c = 0 is (a) $\frac{p}{q}$ (b) $\frac{q}{p}$ (c) $-\frac{p}{q}$ $(d) - \frac{q}{p}$ 54. If the third term of A.P. is 3, sum of first five terms is (b) 12 (c) 15 (d) 18 (a) 8 55. If $\cos A = \frac{1}{2}$ and $\cos B = \frac{\sqrt{3}}{2}$, the value of $\cos (A + B)$ is (c) $\frac{1}{\sqrt{2}}$ (d) -1 (a) 0 (b) 1

- 56. If n(A) = 11, n(B) = 20, what is the possible maximum value of n $(A \cap B)$?
 - (a) 0 (b) 11 (c) 18 (d) 29
- 57. The interest compounded semi-annually on Rs. P for T years at R% p.a. is

(a)
$$P\left[\left(1+\frac{R}{100}\right)^{T}-1\right]$$
 (b) $P\left[\left(1+\frac{R}{200}\right)^{2T}-1\right]$
(c) $P\left[\left(1+\frac{R}{200}\right)^{T}-1\right]$ (d) $P\left[\left(1+\frac{R}{100}\right)^{2T}-1\right]$

58. Ganesh bought a mobile for Rs. 40,000 last year but this year its value has been depreciated to Rs. 37,600. What is the rate of depreciation?

(a) 5% (b) 6% (c) 7% (d) 10% 59. The exchange rate of 1 Euro is NPR 130.40. What will be the new

- rate if the Nepali currency is devaluated by 5% in comparison to Euro?
 - (a) NPR 123.88 (b) NPR 117.36
 - (d) NPR 136.92 (c) NPR 143.44
- 60. The relationship among the radius a, height h and slant height l in a cone is?
 - (a) $a^2 + h^2 = l^2$ (b) $a^2 h^2 = l^2$ (c) $h^2 a^2 = l^2$ (d) $l^2 + a^2 = h^2$
- 61. The last mean or nth mean (g_n) of a G.P. is given by (a) ar^n (b) br (c) ar^{n-1} (d) Both (a) and (b)

62. In a two digit number, the sum of digits is 5 & the product of the digits is 6, the number is (a) 56 (b) 32 (c) 23 (d) Both (b) and (c) 63. What value of x makes the expression $\frac{x^2 - 4}{x^2 - 8x + 12}$ undefined? (a) 2 (b) 6 (c) 4, 6 (d) 2, 6 64. The length of sides of a triangle are $\frac{2}{r}$, $\frac{3}{2r}$ & $\frac{1}{r+1}$. The perimeter of the triangle is (a) $\frac{7x+9}{2x(x+1)}$ (b) $\frac{7x+10}{2x(x+1)}$ (c) $\frac{9x+7}{2x(x+1)}$ (d) $\frac{9x+5}{2x(x+1)}$ 65. For what value of y the equation 6 y-2 equals to 1? (a) 0 (b)1 (c) 1/2(d)1/366. Which of the following values of x satisfy the equation $2^{x+1} + 2^x = 24$? (a) 1 (b) 2 (c) 3 (d) 4 67. \triangle ABC & \triangle BCD lying between the lines AD & BC have equal area, the relation between AD & BC is (a) AD = BC (b) $AD \ II \ BC$ (c) $AD \perp BC$ (d) $AD \leq BC$ 68. The degree measure of an angle at the centre of a circle is the degree measures of its opposites arc (b) half of (c) less than (a) equal to (d) greater than 69. The average which divides the arranged data into two equal parts is (b) median (c) mode (d) first quartile (a) mean 70. The first quartile divides the data in the ratio of (b) 1:3 (c) 1:4(d) 2:3(a) 1 : 2 71. The empirical relationship between mean, median & mode is: (b) Mean = Median = Mode(a) Mean > Median > Mode (c) Mode = 3 Median - 2 Mean (d) Mode = 3 Mean - 2 Median 72. The probability scale of any event E is (b) 1 < P(E) < 0(a) 0 < P(E) < 1(c) $0 \le P(E) \le 1$ (d) $1 \le P(E) \le 0$ 73. For any event E, P (E') is equal to (a) - P(E) (b) 1 - P(E) (c) P(E) - 1 (d) P(E)120

- 74. What is the altitude of the sun when the length of shadow of a vertical pole is equal to its height?
 (a) 30°
 (b) 45°
 (c) 60°
 (d) None of abo
- (a) 30°
 (b) 45°
 (c) 60°
 (d) None of above
 75. A tree 18 m high is broken by the wind. So, its top touches the ground. If the length of broken part of the tree is 12 m, the angle made by the top of the tree with the ground is
 (a) 45°
 (b) 30°
 (c) 60°
 (d) 75°

NEPALI [25 Marks] (4)

76.	नाटककार भीमनिधि वि थिए ?	तवारीले कुन कृतिव	न लागि मदन पुरस्	कार प्राप्त गरेका
	क) देशको माटो	ख) घरको माया	ग) विस्फोट	घ) टीका
77.	'पख्नोस्' निबन्धका ले	खिक को हुन् ?		
	क) भैरव अर्याल	ख) बिन	ा थिङ	
	ग) भीमनिधि तिवारी	घ) मुकुन्दशरण र	उपाध्याय	
78.	महान् प्रतिभाशाली क	न्लाकार पिकासोले	आफुनो जीवनकाल	नमा कति पटक
	अन्तर्राष्ट्रिय लेलिन पु	रस्कार पाएका थिए	Ţ ?	
	क) एक पटक	ख) दुई पटक	ग) तीन पटक	
	घ)चार पटक	3		
79.	नेपाल सरकारले डाव	झ्टर सन्दुक रुइतल	ाई उज्ज्वल कीर्ति	मय राष्ट्रदीप
	पुरस्कारले कुन वर्ष स	ाम्मान गरेको थियो	- ?	
	क) वि.सं २०६८	ख) वि.सं २०६९	ग) वि.सं २०७०	घ) वि.सं
201	૭૧			
80.	घरको माया एकाङ्की	को पात्र गाउँभरके	ो छट्टु पोक्चे कस	को छोरो हो ?
	क) धामी	ख) भाँकी	ग) वैद्य	घ) कविराज
81.	कर्तव्य कथाका पात्र	श्रीधरकी सानी छोर	रीको नाम के हो ?	
	क) समा	ख) रमा	ग) कमला	घ) शशी
82.	नेपाली कथा साहित्य	मा आधुनिकताको १	श्रीगणेश गर्ने कृति	कुन हो ?
	क) छिमेकी	ख) अभागी	ग) नासो	घ) कर्तव्य
83.	'घरको माया' एकाङ्	कीकी पात्र बतासे	कसको प्रेमिका हु	ुन् ?
	क) लालबहादुर	ख) जमानसिंह	ग) कान्छो	घ) आमा
84.	आयाम कथाकी पात्र	आमाले आफ्नो प	तिबिना कति वर्ष वि	बिताएकी
	थिइन्?			
	क) १८ वर्ष	ख) २० वर्ष	ग) १७ वर्ष	घ) १९ वर्ष

85. 'शत्र' कथाका प्रमुख पात्र कृष्ण रायले कति वर्षदेखि गाउँमा पाइला राखेका थिएनन् ? a) १९/१२ ख) १२/१३ ग) १०/१२ घ) १०/११ 86. 'घरेलु' शब्दको निर्माण प्रक्रिया कुन सही हो ? a) घरे+ल् ख) घर +एलु ग) घर् +एलु घ) घरे +एलु 87. शब्दकोशको वर्णानुक्रमअनुसार 'ज्ञ' वर्ण कुन वर्णपछि आउँछ ? क) त्र ख) ग ग) ज **घ)** क 88. 'नादानी' शब्दको अर्थ के हो ? क) दान नगर्ने
 ख) दान गर्ने
 ग) कमजोर
 घ) अबुभा 89. 'नूतन' को पर्यायवाची शब्द कुन हो ? क) पुरातन ख) सनातन ग) प्राचीन घ) नवीन 90. तलका मध्ये कुन द्वित्व प्रक्रियाबाट बनेको शब्द हो ? क) अभ्युदय ख) ऐँचोपैँचो ग) स्टुक्क घ) बोलक्कड 91. 'उनीहरू विद्यालय गएछन् ।' यो वाक्य भूतकालको कुन पक्षको हो ? क) अज्ञात भूत ख) पूर्ण भूत ग) सामान्य भूत घ) अभ्यस्त भूत 92. 'तिमीहरू घर गयौ ।' यस वाक्यलाई तृतीय पुरुषमा परिवर्तन गर्दा कुन ठिक हुन्छ ? क) ऊ घर गयो। ख) उनी घर गए। ग) उनीहरू घर गए। घ) उनी घर गइन्। 93. 'अनुज' को पर्यायवाची शब्द कुन हो ? क) आमा ख) भाइ ग) दाजु घ) पिता 94. 'म पोखरा जान्छु।' यस वाक्यको भाववाच्य कुन ठिक हुन्छ ? क) मद्वारा पोखरा गइन्छ । ख) आफूद्वारा पोखरा गइन्छ । ग) आफू पोखरा गइन्छ । 👘 घ)म पोखरा गइन्छ । 95. 'ऊ भापा गयो ।' यस वाक्यको स्त्रीलिङ्ग कुन ठिक हो ?
 क) उनी भाषा गए।
 ख) उनी भाषा गई।

 ग) ऊ भाषा गई।
 घ) उनी भाषा गइन्।
 96. तलका मध्ये कुन समस्त शब्द हो ? ख) दोबाटो ग) मायालु घ) घरघर क) कवीन्द्र 97. 'आमाले थालमा खाना पस्कनुभयो ।' यस वाक्यमा थालमा कुन कारक हा? क) अधिकरण
 ख) करण
 ग) सम्प्रदान
 घ) कुनै पनि होइन

98. '<u>गरिब</u>लाई राज्यले विशेष ध्यान दिनुपर्छ ।' यस वाक्यमा प्रयोग भएको <u>गरिब</u> शब्दले कुन पदवर्गलाई बुभाउँछ ? क) विशेषण ख) नाम ग) कियायोगी घ) सर्वनाम
99. महाकवि लक्ष्मीप्रसाद देवकोटाले एकै रातमा लेखेको खण्डकाव्य कुन हो? क) मुनामदन ख) लुनी ग) कुञ्जिनी घ) राजकुमार प्रभाकर
100. तलका मध्ये कुन आगन्तुक शब्द होइन ? क) पसल ख) पटुका ग) कानुन घ) अश्रु

All the Best



Model Question for Entrance Examination-2082- 5

Faculties of Management/Humanities/Law

Time: 2 Hrs Full Marks: 100 Pass Marks: 40

Choose the best option and cross-mark the right box available in the answer sheet.

ENGLISH [45 Marks]

- 1. What is the passive form of the sentence "She painted a wall during summer"?
 - a) A wall was painted during summer by her.
 - b) A wall had been painted during summer by her.
 - c) A wall has been painted during summer by her.
 - d) A wall is painted during summer by her.
- 2. Which sentence is in the passive voice?
 - a) She has been painting the wall by herself.
 - b) The project will be finished by tomorrow.
 - c) He had completed the task by noon.
 - d) He will have learnt to drive a car by this month
- 3. Choose the correct passive form of the sentence: "The coach will train the team."
 - a) The team was trained by the coach.
 - b) The team will be trained by the coach.
 - c) The team will have been trained by the coach.
 - d) The team is trained by the coach.
- 4. Which option correctly transforms the sentence into passive voice: "Rahul will submit the report tomorrow"?
 - a) The report is submitted by Rahul tomorrow.
 - b) The report will be submitted by Rahul tomorrow.
 - c) The report will have been submitted by Rahul tomorrow.
 - d) The report submits by Rahul tomorrow.

- 5. What is the indirect speech of "Supriya said, 'I am preparing for the exam'"?
 - a) Supriya said that she is preparing for the exam.
 - b) Supriya said that she was preparing for the exam.
 - c) Supriya said that she will prepare for the exam.
 - d) Supriya said that she has prepared for the exam.
- 6. Choose the correct indirect speech of "Suman said, 'I have completed my project."
 - a) Suman said that she had completed her project.
 - b) Suman said that she has completed her project.
 - c) Suman said that she completes her project.
 - d) Suman said that she will complete her project.
- 7. Which sentence correctly represents the indirect speech of "They said, 'We are watching a movie tonight'"?
 - a) They said that they were watching a movie tonight.
 - b) They said that they will watch a movie tonight.
 - c) They said that they are watching a movie tonight.
 - d) They said that they would watch a movie tonight.
- 8. Which sentence contains a causative verb?
 - a) She writes poems in her free time.
 - b) They had the mechanic repair their car.
 - c) We swam in the pool all afternoon.
 - d) The baby giggled at the funny faces.
- 9. Which option demonstrates the correct use of a causative verb?
 - a) She lets her brother borrow her bicycle.
 - b) He got his car washed at the new service station.
 - c) They watched a movie last night.
 - d) The flowers bloomed beautifully in the garden.
- 10. Choose the sentence with a causative verb
 - a) Snow covers the mountains in winter.
 - b) The teacher had the students rewrite their essays.
 - c) Dolphins swim gracefully in the ocean.
 - d) We enjoy hiking on weekends.
- 11. What sentence uses a causative verb?
 - a) She bakes cookies every weekend.
 - b) He made his brother clean the room.
 - c) They swam in the lake yesterday.
 - d) The dog barked at the mailman.

12.	Which modal au	xiliary verb	is used to ex	press past ability	/ or
	permission?				
	a) Could	b) May	c) Will	d) Must	
13.	Which modal au	xiliary verb	is used to ex	press polite requ	lests or
	offers?				
	a) Shall	b) Can	c) Would	d) Should	
14.	Which modal au	xiliary verb	is used to ex	press advice or	
	recommendation	1?			
	a) Will	b) Should		c) Could	d) Shall
15.	Which sentence	represents t	the third cond	litional tense?	
	a) If Chunika pra	actices daily	y, she will im	prove her singin	g.
	b) If Chunika ha	d taken the	job, she wou	ld have moved a	broad.
	c) If Chunika cal	lls me, I wi	ll answer imn	nediately.	
	d) If Chunika fee	els tired, sh	e should rest.		
16.	What is an exam	ple of the z	ero condition	al tense?	
	a) If Shuvam had	d studied m	ore, he would	l have scored hig	gher.
	b) If Shuvam hea	ats ice, it m	elts.		
	c) If Shuvam con	mes early, v	ve will go for	coffee.	
	d) If Shuvam we	ere rich, he	would travel t	the world.	
17.	Which sentence	uses the fir	st conditional	tense?	
	a) If she practice	es daily, she	improves he	r skills.	
	b) If he had left	on time, he	would have c	caught the train.	
	c) If they invite	us, we will	attend the par	ty.	
10	d) If I were you,	I would tal	that job.	2	
18.	What represents	the second	conditional te	ense?	
	a) If it rains, the	streets get	wet.	1.1	
	b) If I won the lo	ottery, I wo	uld travel the	world.	
	c) If she had stud	iiea, sne wo	buid nave pas	sed.	
10	d) If he arrives is	ate, we will	leave withou	it nim.	
19.	which word is a c_{a} c_{b} c_{b}	synonym 10	or furious ?	a) December 1	4) M.14
20	a) Callin D) Al	igry	on "miconoblo	c) Peaceful	a) Mila
20.	which word is a	synonym i maggad	or iniserable	(a) Chaorful	d) Hommy
21	a) Joyiui D) De	epresseu	in maaning t	c) Cheerful	а) нарру
21.	a) Pough b)	Rooutiful	a) Ordinary	d) Elawod"	
$\gamma\gamma$	What is the antor	wm of "on	cient"?	u) Plaweu	
<i>LL</i> .	a) Ω d b)	Modern	c) Historia	d) A god	
	a) Olu (0)	widdelli		u) Ageu	

23. Which word is an antonym for " Charitable "? b) Benevolent c) Liberal a) Stingy d) generous 24. What is the opposite of "optimistic"? b) Pessimistic c) Positive a) Hopeful d) Confident 25.What does the idiom "burn the midnight oil" mean? a) To stay up late working or studying b) To waste time c) To light candle d) To have a fire accident 26. What does the idiom "let the cat out of the bag" mean? a) To free an animal b) To reveal a hidden truth c) To lose something important d) To clean up quickly 27. What does the idiom "when pigs fly" mean? a) Something is very likely to happen b) Something will never happen c) Something is happening right now d) Something is delayed 28. Which sentence uses the article "an" correctly? a) He saw an one-eyed pirate in the movie. b) She had to get an X-ray after the accident. c) They adopted an European puppy from the shelter. d) He wants to become an university professor someday. 29. Which sentence requires no article? a) She is a doctor at the hospital. b) He bought a new phone yesterday. c) My father is an architect. d) She became a president of the company. 30. Which sentence uses the correct article? a) He is studying to be the engineer. b) They traveled to the Japan last year. c)They visited the Eiffel Tower last summer d) She is studying at an university in London" 31. Which preposition correctly completes the sentence: "He is jealous his brother's success"? b) about c) with a) of d) at 32. What preposition should be used in the sentence: "He apologized ___ being late"? a) for b) about c) on d) at 33. Choose the correct preposition: "She is a fraid spiders"? a) of b) at c) by d) with

- 34. Which question corresponds to the statement: "They are going to the concert tonight."?
 - a) Are they going to the concert tonight?
 - b) Do they go to the concert tonight?
 - c) Did they go to the concert tonight?
 - d) Will they go to the concert tonight?
- 35. What is the correct question form of the statement: "You should check the weather before leaving."?
 - a) Should you check the weather before leaving?
 - b) Do you check the weather before leaving?
 - c) Are you checking the weather before leaving?
 - d) Did you check the weather before leaving?
- 36. What is the correct question form of: "He will visit his parents tomorrow."?
 - a) Will he visit his parents tomorrow?
 - b) Is he visiting his parents tomorrow?
 - c) Did he visit his parents tomorrow?
 - d) Was he visiting his parents tomorrow?
- 37. You have had a long journey. You be tired.a) Mayb) Mightc) Mustd) Can't
- 38. Which of the following words contains a prefix?a) Disagree b) Faster c) Playing d) Orange
- 39. Which prefix means "before" or "in advance"? a) Mis- b) Pre- c) Sub- d) Anti-
- 40. Which of the following words does NOT contain a prefix?a) Unhappyb) Returnc) Begind) Overcook
- 41. Which suffix means"full of "or "having the quality of"? a) -ness b) -ful c) -er d) -tion
- 42. Read the short text and tick the best answer given below. (4) Wisdom: The Light of the Mind Wisdom, often regarded as the guiding light of human thought, plays a crucial role in shaping meaningful and balanced lives. Unlike knowledge, which is the accumulation of facts, wisdom involves deep understanding, sound judgment, and the ability to apply experience thoughtfully. Throughout history, wise individuals—philosophers, leaders, and elders—have helped societies navigate complex challenges by offering insight and perspective. However, in the modern world, the pursuit of instant

gratification and superficial information often overshadows the value of true wisdom. Cultivating wisdom requires patience, reflection, and a willingness to learn from both successes and failures.

- 42. What is the key difference between wisdom and knowledge according to the passage?
 - a) Wisdom is faster to acquire than knowledge.
 - b) Wisdom involves deep understanding and judgment, while knowledge is just facts.
 - c) Wisdom is only gained through formal education.
 - d) Knowledge is more important than wisdom.
- 43. Which of the following is mentioned as a challenge to cultivating wisdom in the modern world?
 - a) Lack of access to information
 - b) The pursuit of instant gratification
 - c) Too many wise leaders
 - d) Excessive focus on deep learning
- 44. According to the passage, what does wisdom require for its development?
 - a) Memorizing large amounts of data
 - b) Patience, reflection, and learning from experience
 - c) Avoiding mistakes at all costs
 - d) Relying only on academic studies
- 45. What role have wise individuals played throughout history?
 - a) They have focused only on personal success.
 - b) They have helped societies navigate challenges with insight.
 - c) They have discouraged learning from failures.
 - d) They have replaced the need for knowledge.

MATHEMATICS [30 Marks]

- 46. If f(x) = (x+1)/(x-1), $x \neq 1$, then (ff)(x) =
 - a) (x-1)/(x+1) b) 1/x c) x d) none
- 47. The quadratic equation having roots 2 and 3 is
 - a) $x^2 5x + 6$ b) $x^2 + 5x + 6$
 - c) $x^2 + 5x 6$ d) $x^2 5x 6$

48. Ord	ers of mat	rices A and	B are $m \times n$ and	n×p. which of the
folle	owing stat	ements is no	ot true?	
a) A	B is defin	ed	b) BA is define	d
c) o	rder of AF	3 is m×p	d) $A + B$ is not	defined
49 Ang	le between	the lines rep	presented by $x^2 -$	$2xy \cot\theta - y^2 = 0$ is
a) 3	0°	b) 45°	c) 60°	d) 90°
50. Fi	nd the val	ue of K in o	rder that the poi	int (K, 1), (5, 5)
and	(10, 7) ma	ay be colline	ear.	
a) -3	3	b) -4	c) -6	d) -5
51. If	80% of th	e adult popu	ulation of a villa	ge is registered to
vote	e, and 60%	of those re	gistered actually	voted in a
part	icular elec	ction, what p	percent of the ad	ults in the village
did	not vote ir	n that election	on?	
a) 4	0%	b) 48%	c) 50%	d) 52%
52. If	³ / ₄ of a num	mber is 7 m	ore than ½ of th	e number, what is
the	number?			
a) 2	0	b) 12	c) 18	d) 15
53. A	shopkeep	er fixed the	marked price of	This television to
mak	e a profit	of 40%. All	owing 20% disc	count on the
mar	ked price	of the televi	sion was sold, v	what percent profit
will	be made?	1		
a) 1	00/			
••) -	0%	b) 12%	c) 15%	d) 11%
54. V	0% alue of x i	b) 12% n x - 2 = \sqrt{x}	c) 15% c is	d) 11%
54. Va a) 1	0% alue of x i or 4	b) 12% n x - 2 = \sqrt{x} b) 1 only	c) 15% c is c) 4 only	d) 11% d) none
54. V a) 1 55. The	0% alue of x i or 4 re are 3 re	b) 12% n x - 2 = \sqrt{x} b) 1 only d, 2 blue an	c) 15% c is c) 4 only d 5 white balls i	d) 11% d) none n a box. A ball is
54. V a) 1 55. The take	alue of x i or 4 re are 3 re n out rand	b) 12% n x - 2 = \sqrt{x} b) 1 only d, 2 blue an lomly. What	c) 15% c is c) 4 only d 5 white balls i t is the probabili	d) 11% d) none n a box. A ball is ity of a ball being
54. Va a) 1 55. The take blue	alue of x i or 4 re are 3 re or out rand or white	b) 12% n x - 2 = \sqrt{x} b) 1 only d, 2 blue an lomly. What	c) 15% c is c) 4 only d 5 white balls i t is the probabili	d) 11% d) none n a box. A ball is ity of a ball being
54. V a) 1 55. The take blue a) 7	alue of x i or 4 re are 3 re or out rand or white /10	b) 12% n x - 2 = \sqrt{x} b) 1 only d, 2 blue an lomly. What b) 3/10	c) 15% c is c) 4 only d 5 white balls i t is the probabili c) 2/7	d) 11% d) none n a box. A ball is ity of a ball being d) 5/7
54. V a) 1 55. The take blue a) 7 56. An a	alue of x i or 4 re are 3 re or white or white /10 ant moves	b) 12% n x - 2 = \sqrt{x} b) 1 only d, 2 blue an lomly. What ? b) 3/10 4.4cm per s	c) 15% c is c) 4 only d 5 white balls i t is the probabili c) 2/7 second. How lor	d) 11% d) none n a box. A ball is ity of a ball being d) 5/7 ng will it take to go
54. Vi a) 1 55. The take blue a) 7 56. An a roun	alue of x i or 4 re are 3 re or white /10 ant moves id a circul	b) 12% n x - 2 = \sqrt{x} b) 1 only d, 2 blue an lomly. What ? b) 3/10 4.4cm per s ar dish of ra	c) 15% c is c) 4 only d 5 white balls i t is the probabilit c) 2/7 second. How lor dius 21cm?	d) 11% d) none n a box. A ball is ity of a ball being d) 5/7 ng will it take to go
54. Vi a) 1 55. The take blue a) 7 56. An i roun a) 3	alue of x i or 4 re are 3 re or white or white /10 ant moves nd a circul 0 sec	b) 12% n x - 2 = \sqrt{x} b) 1 only d, 2 blue an lomly. What ? b) 3/10 4.4cm per s ar dish of ra b) 45sec	c) 15% c is c) 4 only d 5 white balls i t is the probabilit c) 2/7 second. How lon dius 21cm? c) 1minute	d) 11% d) none n a box. A ball is ity of a ball being d) 5/7 ng will it take to go d) 3/2 minute
54. V a) 1 55. The take blue a) 7 56. An a roun a) 3 57. Sim	alue of x i or 4 re are 3 re or white or white $\frac{1}{10}$ ant moves d a circul 0 sec plify $4\sqrt{28}$	b) 12% n x - 2 = \sqrt{x} b) 1 only d, 2 blue an lomly. What ? b) 3/10 4.4cm per s ar dish of ra b) 45sec $3 - \sqrt{63}$	c) 15% c is c) 4 only d 5 white balls i t is the probabilit c) 2/7 second. How lor idius 21cm? c) 1minute	d) 11% d) none n a box. A ball is ity of a ball being d) 5/7 ng will it take to go d) 3/2 minute
 54. Va a) 1 55. The take blue a) 7 56. An a roun a) 3 57. Sim a) 8 	alue of x i or 4 re are 3 re or white $\sqrt{10}$ ant moves of a circul 0 sec plify $4\sqrt{28}$ $\sqrt{7}$	b) 12% n x - 2 = \sqrt{x} b) 1 only d, 2 blue an lomly. What b) 3/10 4.4cm per s ar dish of ra b) 45sec $3 - \sqrt{63}$ b) $7\sqrt{7}$	c) 15% c is c) 4 only d 5 white balls i t is the probabilit c) $2/7$ second. How lor dius 21cm? c) 1minute c) $6\sqrt{7}$	d) 11% d) none n a box. A ball is ity of a ball being d) $5/7$ ng will it take to go d) $3/2$ minute d) $5\sqrt{7}$

58.	. Find the compound interest on Rs. 50,000 invested for 2										
	years at rate of 4% per annum										
	a) Rs. 4050	b) Rs. 4080	c) Rs. 402	5 d) Rs. 4045							
59.	If the price of	f petrol oil ir	ncreases by 25%	by how much							
	percent shoul	d a consume	er reduce his con	sumption of petrol							
	to maintain h	is previous e	expenditure?								
	a) 0%	b) 20%	c) 25%	d) 1%							
60.	What is the re	elation betwo	een the central an	ngle with the angle							
	at the circum	ference stand	ding on the same	arc?							
	a) equal	b) double	c) three times	d) four times							
61.	Given that 17	$^{\prime}6 \text{ dollars} = 1$	$\pounds 100 \text{ and } \pounds 1 = Rs$	s. 119. Find in							
	dollars for Rs	s. 8925									
	a) \$122	b) \$132	c) \$134	d) \$140							
62.	$(\mathbf{x}^p)(\mathbf{x}^q)(\mathbf{x}^r) =$	x ^s . Find s in	terms of p, q &	r.							
	a) r + p + q	b) rpq	c) r – q – p	d) none							
63.	The two ends	s of a diamet	er are $(-4,1)$ and	(2,1). Find area of							
	the circle										
	a) 3π	b) 9π	c) 6π	d) 36π							
64.	After paying	an income ta	ax of 5% a man l	nas Rs. 7600 left.							
	What is his in	ncome?									
	a) Rs.800	b) Rs. 8000	c) Rs.4000	d) Rs.16000							
65.	If $5x + 13 = 3$	31. Find $\sqrt{52}$	(x + 31)	1							
	a) 7	b) √173/5	c) 15	d) √13							
66.	The price of :	50 books is l	Rs. 4000. If the p	rice is increased							
	by 25%, wha	t will be the	price of 36 book	s?							
_	a) 3500	b) 2500	c) 3600	d) 4000							
67.	12p + 3q = 1 a	and $7q - 2p =$	= 9. What is the a	verage of p and q?							
	a) 0.1	b) 1	c) 0.5	d) 2.5							
68.	If $x - y = 5$, a	and $xy = 6$. F	find the value of	$x^3 - y^3$							
	a) 219	b) 129	c) 215	d) 228							
69.	If $ab + bc + c$	$a = 0, x^a \cdot x^b$	$\mathbf{x}^{c} = ?$								
	a) 1	b) x^{a+b+c}	c) 0	d) x							
70.	What percent	age of 1 km	20m is 720m?								
	a) 71%	b) 70.58%	c) 70%	d) 85%							

71.	$\mathbf{x}(\mathbf{x}-3)=\mathbf{x},$	then x =			
	a) 0, –4	b) 0, 4	c) -4, 4	d) 0	, 3
72.	$ax + b^2 = a^2 +$	- bx, then se	olve for x		
	a) $a^2 - b^2$	b) a + b	c) a – b	d) 1	
73.	If the replace	ment set of	the set of	$5x - 1 \le 9$ is	{-2, -1, 0,
	1, 2, 3, 4}. Fi	nd the solu	tion		
	a) {-2, -1, 0	} b) {	[-2, -1, 0,	1}	
	c) {2}	d) {	[-2, -1, 0,	1, 2}	
74.	The locus of t	the point wh	nose abscis	sa and ordina	te are always
	equal is				
	a) $x + y = 0$	b) x	x - y = 0	c) $x + y = 1$	d) $x - y = 1$
75.	The point of	intersectior	n of perper	dicular bised	ctors of the
	sides of a tria	ingle is kno	wn as		

a) centre b) incentre c) orthocenter d) circumcenter

	1	NEPALI [25 N	/larks]	
76.	इच्छार्थको कियापदमा	यदि तिमी भए ध	ातु पछाडि कुन प्रत	यय लाग्छ ?
	क) ओस्	ख) एस्	ग) औँ	घ) ए
77.	पदवर्ग कतिओटा हुन्छ	उन् ?		
	क) छ	ख) सात	ग) आठ	घ) नौ
78.	'तिमी घरमा जाऊ ।'	वाक्यमा घर कुन	पदवर्गमा पर्छ ?	
	क) विशेषण	ख) नाम	ग) कियाविशेषण	घ) कियापद
79.	संयुक्त वाक्यमा प्रयोग	ं हुने संयोजक कुन	हो ?	
	क) अनि	ख) भने	ग) भन्ने	घ) जब-तब
80.	कपालको समूहवाची	शब्द कुन हो ?		
	क) लप्को	ख) बिटो	ग) मुस्लो	घ) गुजुल्टो
81.	'आकाशको फल आँख	ा तरी मर' उखान	को अर्थ कुन हो ?	
	क) असम्भव कुरामा हा	त हाल्नु ख) सहयोग दुईतर्फी	हुनुपर्छ
	ग) भएपछि फाइदा, नभ	नएमा घाटा हुँदैन		
	घ) काम कम गरे पनि	गफचाहिँ धेरै गर्नु		
82.	'फत्ते गर्नु ' टुक्काको	अर्थ कुन हो ?		
	क) पूरा गर्नु	ख) इज्जत फाल्नु	ग) चोर्नु	घ) सुरु गर्नु
83.	कियाको अर्थ वा भाव	कति प्रकारका हुन	छन् ?	
	क) पाँच	ख) चार	ग) तीन	घ) दुई

84. 'मैले दिएको चामल माग्नेले फोलामा राख्यो।' भन्ने वाक्यमा फोलामा कुन कारक हो ? क) कर्ता कारक ख) अधिकरण कारक ग) कर्म कारक घ) सम्प्रदान कारक 85. 'भापामा बस्ने रोहन धेरै पढेर आउँछ। ' भन्ने वाक्यमा विधेय कुन हो ? ख) रोहन ग) पढेर क) कापा घ) आउँछ 86. सन्दुक रुइतले कति सालमा विवाह गरे ? क) वि. सं. २०४३ ख) वि. सं. २०४४ ग) वि. सं. २०४४ घ) वि. सं. २०४२ 87. आयाम कथाकी पात्र कमलकी आमाले कति वर्ष एक्लो जीवन बिताएकी थिइन ? क) २० वर्ष ख) १९ वर्ष ग) १७ वर्ष घ) 88. वर्ष १३) अभिनव शब्दको अर्थ कुन होइन ? ग) ताजा घ) अभिनय ख) नवीन क) नयाँ 89. रणबहादुर शाहको हजुरबुबाको नाम के हो ? क) प्रतापसिंह शाहख) बहादुर शाहग) पृथ्वीनारायण शाहघ) प्रताप मल्ल 90. 'घरको माया' एकाङ्कीमा लेखकको विचार प्रस्तुत गर्ने पात्र को हो ? क) कान्छो ख) बतासे ग) लाल घ) जमान 91. खेतको सिमाना छुट्याउन वा पानी अडिने बनाउन चारैतिर केही उठाइएको माटोको डिललाई के भनिन्छ ? क) जाली ख) समाहा ग) आली घ) निकास 92. 'घरको माया' एकाङ्कीको छट्टु पात्र को हो ? क) पोक्चे ख) धामी ग) लाल घ) जमान 93. 'घरसर शब्द कुन समास हो ? क) द्वित्व
 ख) बहव्रिही
 ग) कर्मधार्य
 घ) क्नै पनि होइन् 94. 'तिमी घरमा बस ल।' यो कुन वाक्य हो ? क) सामान्यार्थक
 ख) इच्छार्थक
 ग) आज्ञार्थक
 घ) सङ्केतार्थक 95. पानी नलाग्ने खेतबारीमा रोपिने एक किसिमको धानलाई के भनिन्छ ? क) साबित्री ख) मन्सुली **घ) घैया** ग) वार 96. 'सयवर्षको अवधिलाई बुभाउने' पदावलीको सिङ्गो शब्द क्न हो ? क) सहस्राब्दी
 ख) दसक
 ग) शताब्दी
 घ) प्राचीन

97. पाब्लो पिकासोको अवसान कहिले भयो ? क) ६ जुन १९७३ छ) ८ अप्रिल १९७३ ग) ६ मे १९७३ घ) ६ अगष्ट १९७३ 98. 'राम घरमा आयो र खाजा खायो ।' वाक्यमा 'र' कुन पदवर्गमा पर्छ ? क) नाम ख) विशेषण ग) संयोजक घ) कियाविशेषण 99. पाब्लो पिकासोकी बहिनीको नाम के हो ? क) सोन्चिटा ख) कोन्चिटा ग) मोन्चिटा घ) होन्चिटा 100. पाब्लो पिकासोको जन्म कहिले भएको थियो ? क) सन् १८८२ अक्टोबर २५ ख) सन् १८८२ अक्टोबर २५ ग) सन् १८८३ अक्टोबर २५ घ) सन् १८८२ अक्टोबर २६

Entrance Model	Question	-2082	(1)
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1	2	3	4	5	6	7	8	9	10
a	a	a	b	a	c	b	c	b	с
11	12	13	14	15	16	17	18	19	20
b	a	a	d	b	a	b	d	a	a
21	22	23	24	25	26	27	28	29	30
c	c	a	b	b	c	a	c	c	b
31	32	33	34	35	36	37	38	39	40
c	c	c	c	c	a	b	b	d	a
41	42	43	44	45	46	47	48	49	50
b	a	a	d	d	c	а	b	d	d
51	52	53	54	55	56	57	58	59	60
d	b	b	a	a	a	d	b	b	b
61	62	63	64	65	66	67	68	69	70
b	a	b	b	a	c	c	c	b	b
71	72	73	74	75	76	77	78	79	80
b	b	d	b	d	a	क	ख	घ	ग
81	82	83	84	85	86	87	88	89	90
ख	क	ख	घ	क	ख	ख	क	ग	क
91	92	93	94	95	96	97	98	99	100
क	ग	ग	ख	ख	घ	ख	ग	ख	क

Entrance Model Question -2082 (2)

1	2	3	1	5	6	7	8	0	10
1	2	5	4	5	0	/	0	2	10
b	b	b	а	с	b	b	b	а	а
11	12	13	14	15	16	17	18	19	20
b	с	b	b	b	a	a	b	b	b
21	22	23	24	25	26	27	28	29	30
b	b	c	b	b	b	c	a	b	c
31	32	33	34	35	36	37	38	39	40
a	b	a	b	b	a	c	b	b	d
41	42	43	44	45	46	47	48	49	50
c	b	c	c	c	a	b	b	b	d
51	52	53	54	55	56	57	58	59	60
b	b	a	d	a	a	c	c	a	a
61	62	63	64	65	66	67	68	69	70
b	с	a	a	c	b	b	a	c	b
71	72	73	74	75	76	77	78	79	80
с	b	b	b	a	घ	क	ख	ग	ख
81	82	83	84	85	86	87	88	89	90
ख	ग	घ	ख	घ	क	ख	ग	ख	ग
91	92	93	94	95	96	97	98	99	100
घ	ख	ग	ग	ख	घ	घ	घ	ख	क

Entrance Model Question -2082 (3)

1	2	3	4	5	6	7	8	9	10
a	b	a	a	a	a	a	a	b	d
11	12	13	14	15	16	17	18	19	20
b	a	b	c	b	d	a	b	b	b
21	22	23	24	25	26	27	28	29	30
a	b	a	a	b	b	a	a	a	b
31	32	33	34	35	36	37	38	39	40
d	b	a	a	a	a	a	a	a	b
41	42	43	44	45	46	47	48	49	50
b	b	a	a	a	a	c	b	d	a
51	52	53	54	55	56	57	58	59	60
с	c	a	d	b	b	b	d	b	d
61	62	63	64	65	66	67	68	69	70
d	b	c	a	c	a	d	b	c	c
71	72	73	74	75	76	77	78	79	80
b	a	d	a	c	ख	ग	ख	ग	क
81	82	83	84	85	86	87	88	89	90
क	घ	घ	ख	ग	ग	क	क	ग	क
91	92	93	94	95	96	97	98	99	100
ग	क	क	<mark>क</mark>	ख	<mark>ग</mark>	<mark>ग</mark>	<mark>क</mark>	ख	ख

Entrance Model Question -2082 (4)

1	2	3	4	5	6	7	8	9	10
b	d	b	b	d	a	a	с	c	с
11	12	13	14	15	16	17	18	19	20
d	b	a	c	b	a	d	с	b	с
21	22	23	24	25	26	27	28	29	30
a	c	c	d	b	d	b	d	d	a
31	32	33	34	35	36	37	38	39	40
c	c	c	a	c	с	b	b	b	d
41	42	43	44	45	46	47	48	49	50
a	d	b	c	c	d	c	a	b	d
51	52	53	54	55	56	57	58	59	60
b	c	c	c	a	b	b	b	a	a
61	62	63	64	65	66	67	68	69	70
a	d	d	c	c	с	b	b	b	b
71	72	73	74	75	76	77	78	79	80
c	с	b	b	b	ग	क	ख	ख	क
81	82	83	84	85	86	87	88	89	90
ख	ग	ख	घ	ग	ख	ग	ग	घ	ख
91	92	93	94	95	96	97	98	99	100
क	ग	ख	ग	ग	ख	क	ख	ग	घ

Entrance Model Question -2082 (5)

1	2	3	4	5	6	7	8	9	10
a	b	b	b	b	a	a	b	b	b
11	12	13	14	15	16	17	18	19	20
b	a	с	b	b	b	c	b	b	b
21	22	23	24	25	26	27	28	29	30
b	b	a	b	a	b	b	b	d	с
31	32	33	34	35	36	<mark>37</mark>	38	39	40
a	a	a	a	a	a	<mark>c</mark>	a	b	с
41	42	43	44	45	46	47	48	49	50
b	b	b	b	b	с	a	b	d	d
51	52	53	54	55	56	57	58	59	60
d	b	b	a	a	a	d	b	b	b
61	62	63	64	65	66	67	68	69	70
b	a	b	b	a	c	c	c	b	b
71	72	73	74	75	76	77	78	79	80
b	b	d	b	d	घ	घ	ग	क	घ
81	82	83	84	85	86	87	88	89	90
क	क	क	ख	घ	क	ख	घ	ग	ख
91	92	93	94	95	96	97	98	99	100
ग	क	क	ग	घ	ग	ख	ग	ख	क