2023

Time - 1 hour

Full Marks - 25

Answer all groups as per instructions.

Figures in the right hand margin indicate marks.

Candidates are required to answer
in their own words as far as practicable.

GROUP - A

1.	Fill in the blanks. (any five)				
	(a)	Knowledge is of an individual.			
		ଜ୍ଞାନ ହେଉଛି ଜଣେ ବ୍ୟକ୍ତିର।			
	(b)	Real education builds			
		ପ୍ରକୃତ ଶିକ୍ଷା ସୃଷ୍ଟି କରେ।			
	(c)	is the real meaning of education.			
		ହେଉଛି ଶିକ୍ଷାର ପ୍ରକୃତ ଅର୍ଥ ।			
	(d)	Name any two of the challenges that obstruct the ethica tices in our educational institutions.	I prac-		
		ଆମର ଶିକ୍ଷାନୁଷ୍ଠାନଗୁଡ଼ିକରେ ନୈତିକ ଅଭ୍ୟାସରେ ବାଧା ସୃଷ୍ଟି କରୁଥିବା ଯେ ଦୂଇଟି ଆହ୍ୱାନକୂ ଉଲ୍ଲେଖ କର ।	କୌଶସି		

(e)	Students should not adopt means in examination.
	ବିଦ୍ୟାର୍ଥୀମାନେ ପରୀକ୍ଷାରେ ଉପାୟ ଅବଲୟନ କରିବା ଉଚିତ୍ ନୁହେଁ।
(f)	Education helps to learn positive inter-personal relationship among the
	ଶିକ୍ଷା ମଧ୍ୟରେ ସକାରାତ୍ମକ ଆନ୍ତଃ ବ୍ୟକ୍ତିଗତ ସମ୍ପର୍କ ଶିଖିବାରେ ସାହାଯ୍ୟ କରେ।
(g)	A Learner in school learns the of Leadership.
	ବିଦ୍ୟାଳୟରେ ଜଣେ ଶିକ୍ଷାର୍ଥୀ ନେତୃତ୍ୱର ଶିଖିଥାଏ ।
(h)	activities in institutions provide scope for development of aesthetic sense.
	ଶିକ୍ଷାନୁଷାନଗୁଡ଼ିକରେ କାର୍ଯ୍ୟକଳାପ ସୌନ୍ଦର୍ଯ୍ୟବୋଧର ବିକାଶର ସୁଯୋଗ ପ୍ରଦାନ କରିଥାଏ।
	GROUP - B
	wer <u>any five</u> of the following questions within two or three sen- ces each. $[2 \times 5]$
(a)	Define the concept of 'Education' in your own words.
	'ଶିକ୍ଷା'ର ପରିକଳ୍ପନାକୁ ନିଜ ଭାଷାରେ ବ୍ୟାଖ୍ୟା କର ।

2.

(b) State the differences between academic qualification and ability.

ଶିକ୍ଷାଗତ ଯୋଗ୍ୟତା ଏବଂ ସାମର୍ଥ୍ୟ ମଧ୍ୟରେ ପାର୍ଥିକ୍ୟ ଦର୍ଶାଅ ।

- (c) Define the concept 'ragging' in educational institutions. ଶିକ୍ଷାନୁଷାନଗୁଡ଼ିକରେ 'ରାଗିଂ' ଧାରଣାକୁ ବ୍ୟାଖ୍ୟା କର ।
- (d) Write two sentences of positive friendship. ସକାରାତ୍ମକ ବନ୍ଧୁତା ବିଷୟରେ ଦୁଇଟି ବାକ୍ୟ ଲେଖ ।
- (e) State two traits of leadership. ନେତୃତ୍ୱର ଦୁଇଟି ଲକ୍ଷଣ ଦର୍ଶାଅ।
- (f) Mention any two importances of co-curricular activities. ସହ-ପାଠ୍ୟକ୍ରମ କାର୍ଯ୍ୟକଳାପର ଯେକୌଣସି ଦୁଇଟି ଗୁରୁତ୍ୱ ଉଲ୍ଲେଖ କର ।
- (g) Distinguish between co-curricular and extra-curricular activities.

ସହ–ପାଠ୍ୟକ୍ରମ ଏବଂ ଅତିରିକ୍ତ–ପାଠ୍ୟକ୍ରମ କାର୍ଯ୍ୟକଳାପ ମଧ୍ୟରେ ପାର୍ଥିକ୍ୟ ଦର୍ଶାଅ ।

GROUP - C

- 3. Answer any two the questions within 300 words each. [5 × 2
 - (a) Real education is not for degree acquisition but for man making. Explain.

ପ୍ରକୃତ ଶିକ୍ଷା ଡିଗ୍ରୀ ହାସଲ ପାଇଁ ନୁହେଁ ବରଂ ମଣିଷ ତିଆରି ପାଇଁ – ବ୍ୟାଖ୍ୟା କର ।

- (b) How to develop interpersonal relation and community life in Higher Education institution ? ଉଚ୍ଚଶିକ୍ଷା ପ୍ରତିଷାନରେ ପାରସ୍କରିକ ସମ୍ପର୍କି ଏବଂ ସମ୍ପ୍ରଦାୟ ଜୀବନକୁ କିପରି ବିକାଶ କରାଯିବ ?
- (c) Give a note on ethical leadership in academic institution. ଶିକ୍ଷାନୁଷାନରେ ନୈତିକ ନେତୃତ୍ୱ ଉପରେ ଏକ ଟିପ୍ଟଣୀ ଦିଅ ।
- (d) What is cheating in Examination ? How can it be checked ? ପରୀକ୍ଷାରେ ନକଲ କଣ ? ଏହାକୁ କିପରି ନିୟନ୍ତଣ କରାଯାଇପାରିବ ?

2023

Time - 3 hours Full Marks - 80

Answer both groups as per instructions. Figures in the right hand margin indicate marks.

GROUP - A

Answer all questions by choosing the correct answer from the given alternatives. $[1 \times 40]$

1.	If $5'' = 125$, then the value of 2	is
	(i) 1	(ii) 2
	(iii) 3	(iv) 4
2.	An equilateral triangle has all	angles measuring
	(i) 30 ⁰	(ii) 45 ⁰
	(iii) 60 ⁰	(iv) 75 ⁰

- The side of an equilateral triangle is 1 cm. Then area of the tri-3. angle = _____.
 - (i) $\frac{\sqrt{3}}{4} \text{ cm}^2$ (iii) $\frac{1}{\sqrt{2}} \text{ cm}^2$

(ii) $\frac{4}{\sqrt{3}}$ cm²

- (iv) 1 cm²

4.	The	triangle whose two sidestriangle.	are	of equal length is called as
	(i)	equilateral	(ii)	isosceles
	(iii)	right	(iv)	none of these
5.	Find	I the area of the square hav	ving s	sides 3 cm.
	(i)	6 cm	(ii)	6 cm ²
	(iii)	9 cm ²	(iv)	9 cm
6.	Find	the mean of 2, 8, 11, 7.		
	(i)	7	(ii)	9
	(iii)	28	(iv)	14
7.	Find	d the median for the data 36	, 53,	1.2, 3.9, 4.7, 12.6.
	(i)	36	(ii)	24.3
	(iii)	23.4	(iv)	63
8.	A co	是2016年,以中央共和国的企图,1916年的中央共和国的企图。	prob	ability of getting at least one
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	(i)	2 3	(ii)	3
	(iii)	4/3	(iv)	1
9.	Find	I the probability of getting an e	even r	number when a dice is thrown.

	(i)	6	(ii)	4
	(iii)	1/3	(iv)	$\frac{1}{2}$
10.	Wha	at is the values of $(4)^{\frac{5}{2}}$?	plat to	
	(i)	8	(ii)	16
	(iii)	32	(iv)	64
11.	Whi 67,	ch number would replace i	n the	series 1, 2, 6, 7, 21, 22, 66,
	(i)	51	(ii)	101
	(iii)	201	(iv)	251
12.	. Divi	de 120 into two parts in the	ratio	2:3.
	(i)	48, 72	(ii)	60,60
	(iii)	70.50	(iv)	80, 40
13	. Exp	press speed 144 km/hr in m	n/s.	
	(i)	10 m/s	(ii)	15 m/s
	(iii)	30 m/s	(iv)	40 m/s
14		nd the median for the set of mbers between 1 to 20.	ontai	ning squares of all the even
	(i)	10	(ii)	100
	(iii)) 12	(iv)	144

15. Find the area	of the circle having radius 14 cm.				
(i) 616 cm ²	(ii) 616 cm				
(iii) 161 cm	(iv) 161 cm ²				
16. Find the area 2 cm.	of the rectangle having length 6 cm and breadth				
(i) 12 cm	(ii) 21 cm ²				
(iii) 12 cm ²	(iv) 21 cm				
17. "Every integer	is a rational member."				
(True or F	alse)				
18. Find the value	of $\frac{x^m}{x^n}$ where $m = n$.				
(i) O	(ii) 1				
(iii) x	(iv) -1				
19. Angles greater t	han 90 ⁰ are called angles.				
(i) acute	(ii) obtuse				
(iii) right	(iv) none of these				
20. State true or fals	$e: \sqrt{0.4} = 0.2$.				
21. Arrange the following words in a meaningful order :					
	d (3) Milk (4) Cow (5) Butter				

	(i)	1, 2, 3, 4, 5	(ii)	2, 3, 4, 5, 1
	(iii)	4, 1, 3, 2, 5	(iv)	5, 4, 3, 2, 1
22.	Whi	ch fraction comes in the se	quen	ce $\frac{9}{32}$, $\frac{7}{16}$, $\frac{5}{8}$,
	(i)	$\frac{3}{2}$	(ii)	1/3
	(iii)	3 4	(iv)	$\frac{4}{3}$
23.	Solv	e the series : ELFA, GLHA,	ILJA	,, MLNA.
	(i)	OLPA	(ii)	LLMA
	(iii)	KLMA	(iv)	KLLA
24.	. Hov 369	v many terms are there in the	ne sei	ries : 201, 208, 215,,
	(i)	23	(ii)	24
	(iii)	25	(iv)	26
25	. FRI	JIT:BANANA::MAMMAL:	**************************************	
	(i)	LIZARD	(ii)	FISH
	(iii)	PIGEON	(iv)	COW

26.	BO	OK: READ: TELEVISIC)IN : _	
	(i)	WATCH	(ii)) EAT
	(iii)	SLEEP	(iv) WALK
27.	Find	d 25% of 160.		
	(i)	50	(ii)	40
	(iii)	60	(iv) 20
28.	In th	ne series 7, 14, 28,	., wh	at will be the 15th term?
	(i)	1792	(ii)	2456
	(iii)	3584	(iv)	4096
29.	Writ	te the relation between spe	ed, d	listance and time.
	(i)	$Speed = \frac{Distance}{Time}$	(ii)	Distance = $\frac{\text{Time}}{\text{Speed}}$
	(iii)	Distance × Time = Speed	(iv)	None of these
30.	Find	S.I. on ₹ 2000 at the rate o	of inte	erest 10% p.a. for 2 years.
		₹ 200		₹ 400
	(iii)	₹ 600	(iv)	₹ 800
31.	Divid	de 18 by $3\sqrt{3}$.	Trop's	
	(i)	2√3	(ii)	$3\sqrt{2}$
	(iii)	$3\sqrt{3}$	(iv)	$2\sqrt{2}$
				THE STATE STATE SHOW THE PARTY OF THE PARTY

32. Simplify $(25)^{-\frac{3}{2}}$.

(i) $\frac{1}{25}$

(ii) $\frac{1}{5}$

(iii) $\frac{1}{125}$

(iv) 125

33. Find the circumference of a circle of radius 14 cm.

(i) 88 cm²

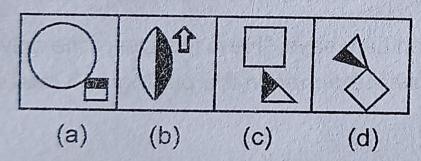
(ii) 88 cm

(iii) 44 cm

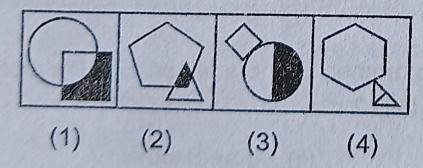
(iv) 44 cm²

34. Select a figure from amongst the answer figures which would be fifth figure to continue the series.

Question figure



Answer figure



(i) (1)

(ii) (2)

(iii) (3)

(iv) (4)

35. Which figure can be placed in place of question mark?

Problem figures (E) (D) (C) (A) (B) Answer figures (4)(5)(3)(2)(1) (2)(ii) (1)(iv) (4) (3)

- 36. Pointing to a photograph Lata says, "He is the son of the only son of my grandfather." How is the man in the photograph related to Lata?
 - (i) Brother

(ii) Sister

(iii) Aunt

(i)

(iii)

- (iv) Uncle
- 37. A is B's sister. C is B's mother. D is C's father. E is D's mother. Then, how is A related to D?
 - (i) grandfather

(ii) grandmother

(iii) daughter

(iv) granddaughter

38.	In a code language if TRAINS is coded as RTIASN, how PISTOL will be coded in the same language?				
	(i)	SITLOP	(ii)	IPSTLO	
	(iii)	SIPTLO	(iv)	IPTSLO	
39.	If PA	AINT is coded as 74128 and would you encode ACCEP	EXC T?	CEL is coded as 93596, then	
	(i)	455978	(ii)	547978	
	(iii)	554978	(iv)	735961	
40.	Wh	ich of the following diagram en Women, Mothers and Er	ns inc ngine	dicates the best relation be- ers?	
	(i)		(ii)	00	
	(iii)		(iv)		
		GROUI	<u>Р - В</u>		
	Answer <u>all</u> questions by choosing the correct answer from the given alternatives. [2 × 20				
41		pal's salary is increased from	m ₹ 7	6,000 to ₹ 80,560. Find the	
	(i)	9	(ii)	6	
	(iii)) 8	(iv)	10	

42.	16:	56::32:?		
OF	(i)	96	(ii)	112
	(iii)	120	(iv)	128
43.	Wh	ich digit will appear on the fa	ace of	posite to the face with num-
	ber			
	343		Care de	
			All Parks	No the Control of the

(i) 3

(ii) 6

(iii) **5**

- (iv) None of these
- 44. A pipe which is connected to fill a tank is known as ______ (Inlet pipe / Outlet pipe)
- 45. Find 5% of 580.
- 46. Find the area of a square whose diagonal is 5 cm.
- 47. Find the area of the semicircle having radius r = 3 cm.
- 48. A person purchased a pen for ₹85 and sold it for ₹120. Find his % of profit.
- 49. Find simple interest of ₹ 2500 at the rate of interest 10% per annum for 3 years.
- 50. Find the value of $\sqrt{78961}$.

51.	A car travelling at a speed of 60 km / hr takes 15 hours to complete a journey. What will be the time taken to complete the same journey by a train whose speed is 90 km / hr?					
52.	In wh	at time will ₹ 3100 amount	to ₹	6200 at 4% per annum ?		
53.		product of two numbers is 1 then find the sum of the number		d the sum of their squares is		
54.	State	true or false : "Every squa	re is	a quadrilateral".		
55.	Expr	ess 20 km/hr in m/s.				
56	56. If "DELHI" is coded as "73541" and "CALCUTTA" as '82589662' how can 'CALICUT' be coded?					
	(i)	5279431	(ii)	5978213		
	(iii)	8251896	(iv)	8543691		
.57	7. Wh	ich number would replace in	thes	series: 8, 13, 20,, 40 ?		
	(i)	29	(ii)	28		
	(iii)	27	(iv)	26		
5		nich is the number that come 7, 14, 16, 32, 34,	s nex	ct in the following sequence :		
	(i)	64	(ii)	68		
	(iii)) 72	(iv)	60		

59.	Test the divisibility of the number 7248 (i) by 2 (ii) by 9 ?				
60.	In the series 7, 14, 28,		, what will be the 9th term		
	(i)	1792	(ii)	2456	
	(iii)	3584	(iv)	4096	

(iii) 3584