Test Booklet	Serial No.
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<u>12 JANUARY 2025</u>

Marks: 600

Time: 180 minutes

ROLL NO.:	NAME:
SIGNATURE:	DATE/TIME:
INSTRU	JCTIONS FOR THE CANDIDATES
1. The question booklet contains Social Studies (Q 121-150). A	s English Section (Q 1-40), Mathematics Section (Q 41-120) and
	carefully read the Instructions on the Answer Sheet (OMR Sheet)
supplied separately.	currently roug and module tons on the ranswer sheet (entire sheet)
	n, please ensure that all pages of your Test Booklet are properly
	not damaged in any manner and contains 150 questions. In case
	late should immediately report the matter to the invigilator for
	tlet. No claim in this regard will be entertained at a later stage.
	eing provided separately along with this Test Booklet. Please fill Il Number, Test Booklet Serial No., Centre Number, etc. in the
-	Answer Sheet and put your signature in the box provided for this
purpose.	This wer sheet and put your signature in the box provided for this
	t Test Booklet Code Serial No. on Side 2 of the OMR Answer
Sheet. If the space for the	Booklet Code is left blank or more than one Booklet Code is
	eemed to be an incorrect Booklet Code and the Answer Sheet will
	date himself will be solely responsible for all the consequences
	ission in writing the test Booklet code.
	f 18 pages containing 150 questions & 02 pages for rough
	four alternative choices (1), (2), (3), (4) are given, out of which choice of answer by darkening the suitable circle with
	MR Answer Sheet supplied to you separately. USE OF PENCIL
-	ED. More than one answers indicated against a question will be
deemed as incorrect response	
7. The maximum marks are 600	. Each question carries four (4) marks. There will be negative
marking of minus one (-1) fe	or each incorrect answer.
	y marks on the OMR Answer Sheet. Any stray mark or smudge
	hay be taken as a wrong answer. Any damage to the OMR Answer
Sheet may result in disqualifie	
	andidate must hand over the OMR Answer Sheet to the oom/hall. The Question Booklet may be retained.
	watches and calculators etc. are not allowed.
	itside the Examination Hall. Do not retain any paper except
the ADMIT CARD.	

SECTION-ENGLISH

Directions (Questions 1 to 10). In these questions, you have two brief passages with five questions following each passage. Read the passage carefully and choose the best answer out of the four alternatives

PASSAGE 1

1. We live in an age of wonders and miracles. It has been called the 'Age of Science' as different aspects of our life that changed in the preceding centuries have been attributed to science. This is completely true, but it is only one side of the coin. The flip side is that as we have advanced more in the field of technology, something fundamental to humanity has been left behind. Values such as empathy and concern for our fellow human beings are gradually being eroded due to the onslaught of our ever-evolving lifestyles, aided by the marvels of technological advancements.

2. Take the example of the Internet. On the one hand, access to information and knowledge at the click of a button is a veritable boon to everyone (especially students) and this has made our lives much simpler. On the other hand, it has severely limited actual contact with teachers, friends and elders. Thus, the learning that a person gains is incomplete as he or she cannot easily take the advice that another person can give on the basis of knowledge and practical experience that is at his or her disposal.

3. Today, a small child can access and navigate the Internet with an ease that still astounds those from the older generation. But what is even more astounding is the neglect of the basic human traits of friendship, relationships and family values. Owing to all the technological advancements and the gadgets available today, children often miss out on the most enriching childhood experiences such as playing outdoor games with friends, which apart from being immensely enjoyable and physically exhilarating, also develop traits such as teamwork and discipline at an early age.

4. But now when the concept of friends is gradually being limited to virtual friends on social networking sites, one shudders to think of the implications for the personality development of a child because the time spent with computers or mobile phones for entertainment can never really substitute for the holistic benefits of outdoor play. Such examples can be found in plenty. Now if we compare the hustle and bustle of modern city life and the peace and calm of a rustic village life, we can see that in cities, life is a race with a variety of factors. It is a race that everyone tries their level best to win, but nobody actually wins as it never ends.

5. As for me, I think this age of rapid development has created at least as many problems as it has solved, if not more. The reason is that the basic goal of life, which should be the pursuit of happiness, has now been replaced by the pursuit of money. Money and happiness are considered analogous in our present society, but they actually are not so. In this mindless pursuit of money, nobody has time now to appreciate the beauty of life, which consists not of multi-billion-dollar skyscrapers, but a simple act of kindness to someone in a time of need.

6. So there is an urgent need to stop for a moment and think about where we are actually heading, is it development or destruction? Do we have to wait until people have grown so much apart from each other that we cannot see the suffering of our own species due to our mindless greed, or can we still mend our ways? To answer this question, I will take the help of that most magnificent of human feelings-hope. I sincerely wish that we, as the most intelligent species on earth, would take our fair share of responsibility and sincerely think about the path we should follow. Though mankind will possibly last for a long time thanks to its determination and sheer ingenuity, we have to make sure we do not lose our humanity somewhere along the way.

1.	Which of the following is not true about the internet?
	(1) It provides an easy access to information and knowledge.
	(2) It has made our lives simpler.
	(3) It has limited actual contact with teachers and friends.
	(4) It can easily give advice based on personal experience.
2.	Internet hampers the holistic growth of a child by
	(1) encouraging human traits of friendship, society and family.
	(2) enriching childhood experiences of outdoor games.
	(3) providing virtual friends and gadgets.
	(4) developing teamwork and discipline.
3.	According to the passage, true happiness lies in
5.	According to the passage, true happiness lies in
	(1) simple acts of kindness
	(2) rapid development
	(3) multi-billion-dollar skyscrapers
	(4) pursuit of money
4.	The word 'veritable' in para 2 means:
	Ĩ
	(1) Actual
	(2) Big
	(3) Latest
	(4) Perfect
5.	Antonym of holistic is
	(1) Agonistic
	(2) Individualistic
	(3) Optimistic
	(4) Pessimistic
	PASSAGE-2
each choid corre	the Mastermind quiz is billed as a "battle of minds'. This battle is fought in two halves. In the first of four participants faces a barrage of questions, for two minutes, on any topic of his or her ce. In the second round, the questions are on general knowledge. There are two points for each ect answer and zero for wrong answers and passes. In the event of a tie, the person who has passe er questions wins.
2. O	uestions can be bizarre, but they are answered none the less. "It absolutely amazes you that

2. Questions can be bizarre, but they are answered none the less. "It absolutely amazes you that these guys know so much. In KBC, it used to be, that this guy knows so little," says Basu after the show. Siddhartha Basu was the director of Kaun Banega Crorepati (KBC).

3. This year's Mastermind final was won by Ramanand Janardhana, a 22 year-old software engineer from Pune. Janardhana had Agatha Christie's 'Tommy and Tupence' novels as his specialist topic. He even knew that Tommy used asofoetida to create a stink in his room.

4. There are, of course, all sorts of quizzers. The diary-toting, Manorama yearbook, wielding variety will typically prepare for a contest by 'studying'. He knows that the best questions, the ones that get the 'wah-wahs', are always repeated. He is a solid quizzer, because he knows the obvious.

5. There is the other kind, like Janardhana, who claim they do nothing extra to prepare for quizzes. They read the papers and magazines, watch TV, and become quizzers because they enjoy the test of recall.

6. It was a test the nation took when KBC fever was at its height. But long before KBC, there were quiz societies across the country, in places from Guwahati to Gandhinagar. Kolkata was the hub of the game; quizzing in India began here in 1967. Even now, the majority of quizzers are from Kolkata. Of the four 2002 Mastermind finalists, two were from that city.

7. Quizzing is big in school and college festivals. It's the 'literary' highlight of all fests. There are even professional quizzers, who, like mercenaries, play for money and the thrill of the game. They represent various organizations at different times.

8. Most quizzers grow out of active quizzing after college. Some, the really hardcore devotees of the game, keep at it. "I don't get tired of quizzing," says Pinaki Prasad Roy, a Mastermind finalist. "I get excited." Roy is a 46-year old finance professional from Kolkata, and has been a quizzer for three decades.

9. Curiosity is the most essential quality for a quizzer. A fantastic memory and instant recall help. And for Mastermind at least, the choice of specialist subject is critical. In this year's event, Janardhana took an unassailable lead in the specialist round itself.

Junu	difana took an unassanable lead in the specialist found itself.
6.	The participants in the quiz seem 'masterminds' because
	(1) they seem to know so little
	(2) they have very polished manner
	(3) they show lot of self confidence
	(4) they seem to know so much
7.	Ramanand Janardhana won as
	(1) he had mastery over the specialist topic
	(2) he had gone through the quiz columns in magazines
	(3) he had chinks in his memory/recall
	(4) he knew all the often repeated questions asked by quizmasters
8.	The studious quizzers are called 'solid' quizzers because
	(1) they prepare expected questions
	(2) they know the obvious
	(3) they bank on general awareness
	(4) they enjoy the test of recall
9.	The quality most essential for a quizzer is
	(1) love of learning
	(2) mathematical accuracy
	(3) curiosity to know
10	(4) comprehensive learning
10.	The word 'mercenaries' in para 7 means
	(1) those who seek mercy(2) those who work on machines
	(2) those who work on machines
	(3) those who are lively and quick(4) those who fight for more quick
	(4) those who fight for money

Dire	ections (Questions 11	to 15). Find the corre	ctly spelt word out of t	he four alternatives
11.	1. laison	2. liaison	3. liasion	4. laision
12.	1. narcissistic	2. narcisisstic	3. naricissistic	4. narcisisistic
13.	1. enterpreneur	2. entreperneur	3. entrepreneur	4. entrepernuer
14.	1. naueseous	2. nuaseous	3. nauseuos	4. nauseous
15.	1. mischievous	2. mischivous	3. mischieveus	4. mischeivous
				ernatives, choose the one
		of the word mentioned	: -	
16.	Famous			
	1. Obscure	2. Unknown	3. Typical	4. Powerful
17.	Rigid			
	1.Coarse	2. Pliable	3. Pliant	4. Soft
18.	Prudent			
	1. Foolish	2. Indiscreet	3. Tedious	4. Stupid
19.	Cruel			
	1.Kind	2. Gentle	3. Compassionate	4. Harsh
20.	Knowledge			
	1. Inanity	2.Ignorance	3. Ratification	4. Stupidity
				ernatives, choose the one
		of the word mentioned	:-	
21.	Think			
	1.Contemplate	2. Reflect	3. Meditate	4. Narrative
22.	Interesting	2.11011000		in i fuiruit (c
	8			
	1. Maintain	2. Fascinating	3. Animated	4. Bright
23.	False			
	1. Corpulent	2. Spurious	3. Counterfeit	4. Fraudulent
24.	Predicament			
	1. Impish	2. Quandary	3. Plight	4. Dilemma
25.	Amazing		~	
	1.Astonishing	2. Dauntless	3. Incredible	4. Unbelievable
			R, S to make meaning	
26.	P: two days	Q: she left	R: for Amritsar	S: after her birthday
	1.PRSQ	2. QRPS	3. SQRP	4. RQSP

27.	P: gymnasium regula	arly Q: he doesn't	R: the local	S: go to			
	1.SROP	2. OSPR	3. RPSO	4. OSRP			
28.	P: has been	2. QSPR Q: my mother	R: since 2002	S: working here			
D	1.RQPS	2. QRSP to 30). Fill the blanks	3: RSQP	4. PQRS			
29.	The Indian Cricket team found their in the Australian team.						
	1. beating	2. match	3. captain	4. invited			
30.	Solubility of silver clion effect.	hloride in t	he presence of sodium	4. invited chloride because of common			
	1. decreases	2. positive	3. negative	4. lesser			
	ections (Questions 31	to 35). A part in the fo	llowing sentences is un	nderlined, which may/may			
	· · · · ·	, , ,	-	no improvement is possible			
choo	se the option accordin	ngly. derabad, he <u>go</u> to the c					
51.	when he lived in Hy	derabad, he <u>go</u> to the c	mema once a week.				
	1. went	2. was going	3. no improvement	4. goes			
32.		dder when he <u>mends</u> th					
22		2. was mending		4. no improvement			
33.	He used to visit us ev	very week, but he <u>neve</u>	<u>r</u> now.				
	1.is rarely coming	2. have rarely come	3. no improvement	4. rarely comes			
34.		appearance completely		2			
25		2. no improvement					
35.	My wife always keep	ps having for more mo	ney at the end of the w	zeek.			
	1 no improvement	2. ask	3 asking	4 asked			
Dire		to 40). Fill the blanks					
		s credits to					
			·				
L	1. loyalism	2. physical fitness	3. loyalty	4. intelligence			
37.	The Delhi Metro has	travel in	n Delhi.				
	1 turned	2 abarcad	2 angier	1 modorn			
30	1. turned	2. changed	3. easier	4. modern ecause of modern technology.			
50.	Life in the cities flas			cause of modelli technology.			
	1. stressful	2. easier	3. difference	4. faster			
39.		overcome, to ensure that					
	1. money	2. facilities	3. work	4. transport			
40.	They had been	for the bus for an	n hour before it arrived	l.			
	1 waiting	2. expected	3 hone	1 driving			
	1. wanning	2. expected	5. nope	T. UIIVIIIg			

	-		MATHEMATICS	
41.			its y co-ordinates. If I	P is equidistant from
	Q (3,-5) and R (2,5)), then the co-ordina	tes of P are	
	1. (1,3)	2. $(\frac{3}{2}, \frac{1}{2})$	3. $(\frac{1}{2}, \frac{3}{2})$	4. $\left(\frac{-15}{14}, \frac{-5}{14}\right)$
42.	Find the equation o and (-2, 3) respective		pisector of AB, where	A and B are the points (4, 5)
	1. $2x - y + 7 = 0$	2. $3x + 2y - 7 =$	= 0 3. 3x - y - 7 =	= 0 4.3 x + y - 7 = 0
43.	Find the value of k	if the points (k, 3), ((6, -2) and (-3, 4) are	co-linear.
	11/2	23/2	3. 1/2	4. 3/2
44.	If $\tan \theta + \cot \theta =$	2, then the value o	$\frac{3. \frac{1}{2}}{f \tan^{2n}\theta + \cot^{2n}\theta}$	is
	1. 2 ⁿ	2. 0	3.2	4. 2n
45.	If $a = \cos A + \sin A$	A and $b = \cos A - s$	3.2 in A, then the value	of $\sqrt{\frac{a}{b}} + \sqrt{\frac{b}{a}}$ is
	1. 2 cos A	2. $\frac{2}{\sqrt{1+sec^2A}}$	3. $\frac{2}{\sqrt{1-tan^2A}}$	$4. \ 2\sqrt{1 - \tan^2 A}$ $B + \sin^2 C \text{ is}$
46.	For right angled tria	angle $\triangle ABC$, the val	ue of $sin^2A + sin^2$.	$B + sin^2 C$ is
	1.2	2.1	3.0	41
47.	In $\triangle ABC, \angle B = 9$	$0^{\circ}, AB = 20 \ cm \ , \ A$	$\frac{3.0}{C + BC} = 50 \text{ cm, the}$	en sin A is
	1. 2/5	2. 20/21	3. 20/29	4. 21/29
48.	A shopkeeper purch ₹ 11. He earns a pro		10 and sells them at t	4. 21/29 he rate of 10 knives for
	1. 11 %	2. 15%	3.20%	4. 21%
49.	3 men or 7 women	can do a piece of work	ork in 32 days. The nu	umber of days required by 7
	1. 19	2.21	3.27	4.36
50.	1 0		0	<i>ROW</i> are in the ratio 4:7 and
	1. 25 cm^2	2. 14 cm^2	3. 49 cm^2	4. 98 cm^2
51.	In $\triangle ABC$. DE BO cm, then the value of		cm, $AE = 4 cm$, $BD =$	$\frac{4.98 \ cm^2}{(x-2) \ cm \ and \ CE = (x-3)}$
	1. 7 cm	2. 9 cm	3. 11 cm	4. 12 cm
52.				nits, then the value of x is
	1. 3, -7	2. 2, -3	3. 4, -3	44, 6
L				

53.	Three numbers are in the ratio 5: 6: 7 and their HCF is 7. Then, the square root of largest number is				
	1.5	2. 7	3. 8	4. 10	
54.	The least num	ber which is a perfect s	quare and is divisible b	4. 10 by each of 16, 20 and 24 is	
	1.240	2.2400	3.1600	4. 3600 LCM and HCF is 600. If one	
55.		2 numbers is 14 times the then the other number is the the other number is the		LCM and HCF is 600. If one	
	1.1000	2. 180	3.280	4. 400	
		$\begin{array}{c} 2.180\\ \text{and }\theta \text{ lies in the 1st } Q\\ \phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$			
	$1.\frac{1}{\sqrt{6}}$	2. $\frac{\sqrt{5}}{\sqrt{6}}$	3. $\frac{-1}{\sqrt{6}}$	4. $\frac{-\sqrt{5}}{\sqrt{6}}$	
57.	Find the last d	$\frac{2. \frac{\sqrt{5}}{\sqrt{6}}}{\text{igit (unit digit) of } 22^{12}}$	γu	Ϋ́σ	
	1. 8	2.4	3.2	4. 6	
58.	If α and β are	roots of polynomial 3x	$x^2 + 6x + k$ such that a	$\frac{4.6}{\alpha^2 + \beta^2 + \alpha\beta = \frac{8}{3}}$. Then	
	the value of k			3	
	18	2. 8 of an A.P is $2n + 1$, the function of a contract of the second se	34	4.4	
59.	If the nth term	of an A.P is $2n + 1$, the	nen sum of first <i>n</i> term	s of the A.P. is	
	1. $n(n-2)$	2. $n(n + 2)$	3. $n(n+1)$	$\frac{4. n(n-1)}{\text{difference is 6, then its first}}$	
60.	If the sum of <i>t</i> term is	i terms of an A.P. is $3r$	$n^2 + n$ and its common	difference is 6, then its first	
	1.2	2.3 10, 12, has 60 terr	3.1	4.4	
61.	If the A.P. 8,	10, 12, has 60 terr	ns, then sum of last 10	terms is	
	1.1100	2.1150	3. 1170	4. 1190	
62.	In a garden, there are 10 rows and 12 columns of mango trees. The distance between two trees is 2 m and a distance of 1m is left from all sides of the boundary of the garden. The length of the garden is				
	1. 20 m	2. 22m	3. 24 m	4. 26 m	
63.	LCM of two p	$\frac{2.22m}{x \text{ and } y}$	(x > y) is 161. The va	lue of $3y - x$ is	
	12	21	3. 1	4.2	
64.	and 20 brown		posing he has to take o	4. 2 as altogether 20 black socks ut the socks in the dark, how iir?	
	1.20	2.3	3.39	4. None of these	
i	1.20	2. 5	5.57		

65.	A group of 1200 persons consisting of captains and soldiers is traveling in a train. For every 15 soldiers there is one captain. The number of captains in the group is				
	1.85	2.80	3.75	4.70	
66.	If you write dow	n all the numbers from	1 to 100, then how m	nany times do you write 3?	
	1.20	2.18	3.11	4. 21 ₹71. The number of 25 paise	
67.	A total of 324 co coins is	bins of 20 paise and 25	paise make a sum of ⁼	₹71. The number of 25 paise	
	1. 120	2.124	3.144	4. 200 vice as old as he was 12 years	
68.	Today is Varun' ago. How old is		om today he will be tw	vice as old as he was 12 years	
	1. 20 years		3. 25 years		
69.	•	ut 20 years older than A	-	other is five years younger s old. At what age did the	
	1.23 years	2. 25 years	3. 33 years	4. 35 years	
70.		erior angles of a regula es of a regular hexagon		be equal to $\frac{9}{8}$ times of one of dides of the polygon is	
	1.5	2.8	3.7	4.4	
71.		en the value of $4x^2 + \frac{1}{2}$			
	1.7	29	3.9	47	
72.		° and 45° respectively.		47 e tree and its foot is at angles ree is 10 m, then the height of	
	$1.10(\sqrt{3}+1)$	$\frac{2.5(\sqrt{3}+1)}{0 \text{ numbers is } 91 \text{ and the}}$	3. 5 $(\sqrt{3}+3)$	4. 10 $(3 + \sqrt{3})$	
73.	If the sum of two	o numbers is 91 and the	eir difference is 37, the	en their product is	
	1. 1728	2.8040	3.2378	4. 1736	
74.	A dishonest trad price, his gain po		nt in place of a kg we	ight. If he sells articles at cost	
	$1.5\frac{3}{11}$	2. $6\frac{18}{47}$	$3.6\frac{2}{47}$	4. None of these	
75.		are 50% and 60% less of the second number?	s than a third num	ber. How many percent the	

1.12 cm2. $6\sqrt{2}$ cm3. $\sqrt{63}$ cm4. None of thes77.A circle is inscribed in an equilateral triangle and a square is inscribed in the circle The ratio of the area of the triangle to that of the square is1. $\sqrt{3}$: 12. $\sqrt{3}$: $\sqrt{2}$ 3. $3\sqrt{3}$: 24. $3\sqrt{3}$: $\sqrt{2}$ 78.A sphere of radius 2 cm is put into water contained in a cylinder of radius 4 cm sphere is completely immersed, the water level in the cylinder rises by1.2 cm2. $\frac{1}{3}$ cm3. $\frac{1}{2}$ cm4. $\frac{2}{3}$ cm79.A shopkeeper marks his goods at 25% above his cost and allows a discount on cash payments. In the transaction he gets1.5% profit2. 5% loss3. 10% loss4. no profit no los80.81.1.52.23.64.381.The compound interest on ₹100 at the rate of 10% per annum, interested comp half yearly, after one year is1.122.223.234.2483.1.122.223.231.122.221.23.231.24.684.Nineteen boys turn out for baseball. Of these 11 are wearing baseball shirts and wearing full uniforms is1.32.53.64.485.1.482.2484.85.1.482.2486.87.88.1.32.53.64.886.87.88.1.32.53.64.88	76.	The sides of an equilateral $\triangle ABC$ are 12 cm each. D is the foot of the perpendicular from
 77. A circle is inscribed in an equilateral triangle and a square is inscribed in the circle The ratio of the area of the triangle to that of the square is 1.√3:1 2.√3:√2 3. 3√3:2 4. 3√3:√2 78. A sphere of radius 2 cm is put into water contained in a cylinder of radius 4 cm sphere is completely immersed, the water level in the cylinder rises by 1. 2 cm 2. ¹/₃ cm 3. ¹/₂ cm 4. ²/₃ cm 79. A shopkeeper marks his goods at 25% above his cost and allows a discount on cash payments. In the transaction he gets 1. 5% profit 2. 5% loss 3. 10% loss 4. no profit no los 80. If the points A(7, 3), B(9, 4), C(8, k) and D(6, 1) taken in order, are the vertice rectangle, then the value of k is 1. 5 2.2 3.6 4.3 81. The compound interest on ₹100 at the rate of 10% per annum, interested comphalf yearly, after one year is 1. ₹10 2. ₹11 3. ₹10.50 4. ₹10.25 82. The number of times, the two hands of a clock make a right angle between 1 to 12 mid-night is 1. 12 2. 22 3. 23 4. 24 83. Two natural numbers are such that their product, sum and difference are in to 24:7:1. The product of the two numbers is 1. 48 2. 24 3. 12 4. 6 84. Nineteen boys turn out for baseball. Of these 11 are wearing baseball shirts and wearing baseball pants. There are no boys without one or the other. The number wearing full uniforms is 1. 3 2.5 3.6 4.8 5.7 6.8 7.8 7.9 7.9 7.9 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.3 7.4 7.5 7.5 7.6 7.6 8.6 7.6 8.7 8.7 8.7 8.8 8.8 8.8<!--</td--><td></td><td>A to BC and E is the mid-point of AD. Then the length of BE is</td>		A to BC and E is the mid-point of AD. Then the length of BE is
The ratio of the area of the triangle to that of the square is 1. $\sqrt{3}$: 1 2. $\sqrt{3}$: $\sqrt{2}$ 3. $3\sqrt{3}$: 2 4. $3\sqrt{3}$: $\sqrt{2}$ 78. A sphere of radius 2 cm is put into water contained in a cylinder of radius 4 cm sphere is completely immersed, the water level in the cylinder rises by 1. 2 cm 2. $\frac{1}{3}$ cm 3. $\frac{1}{2}$ cm 4. $\frac{2}{3}$ cm 79. A shopkeeper marks his goods at 25% above his cost and allows a discount on cash payments. In the transaction he gets 1.5% profit 2.5% loss 3.10% loss 4. no profit no los 80. If the points A(7, 3), B(9, 4), C(8, k) and D(6, 1) taken in order, are the vertice rectangle, then the value of k is 1.5 2.2 3.6 4.3 81. The compound interest on ₹100 at the rate of 10% per annum, interested comp half yearly, after one year is 1. ₹10 2. ₹11 3. ₹10.50 4. ₹10.25 82. The number of times, the two hands of a clock make a right angle between 1 to 12 mid-night is 1. 12 2.22 3.23 4.24 83. Two natural numbers are such that their product, sum and difference are in to 24 :7 :1. The product of the two numbers is 1. 48 2.24 3.12 4.6 84. Nineteen boys turn out for baseball. Of these 11 are wearing baseball shirts and wearing baseball pants. There are no boys without one or the other. The number wearing full uniforms is 1. 3 2.5 3.6 4.8 85. If the sum of the two radii of two circles is 7 cm and the difference of their circum is 8 cm, the two circumferences will be 1.34 cm and 26 cm 2.28 cm and 20 cm 3.26 cm and 18 cm 4.20 cm and 12 cm 86. Factors of the quadratic expression $x^2 + 4\sqrt{2}x + 6$ is		1. 12 cm 2. $6\sqrt{2}$ cm 3. $\sqrt{63}$ cm 4. None of these
sphere is completely immersed, the water level in the cylinder rises by 1. 2 cm 2. $\frac{1}{3}$ cm 3. $\frac{1}{2}$ cm 4. $\frac{2}{3}$ cm 79. A shopkeeper marks his goods at 25% above his cost and allows a discount on cash payments. In the transaction he gets 1. 5% profit 2. 5% loss 3. 10% loss 4. no profit no los 80. If the points A(7, 3), B(9, 4), C(8, k) and D(6, 1) taken in order, are the vertice rectangle, then the value of k is 1. 5 2. 2 3. 6 4. 3 81. The compound interest on ₹100 at the rate of 10% per annum, interested comp half yearly, after one year is 1. ₹10 2. ₹11 3. ₹10.50 4. ₹10.25 82. The number of times, the two hands of a clock make a right angle between 1 to 12 mid-night is 1. 12 2. 22 3. 23 4. 24 83. Two natural numbers are such that their product, sum and difference are in to 24 :7 :1. The product of the two numbers is 1. 48 2. 24 3. 12 4. 6 84. Nineteen boys turn out for baseball. Of these 11 are wearing baseball shirts and wearing baseball pants. There are no boys without one or the other. The number wearing full uniforms is 1. 3 2. 5 3. 6 4. 8 85. If the sum of the two radii of two circles is 7 cm and the difference of their circum is 8 cm, the two circumferences will be 1.34 cm and 26 cm 2. 28 cm and 20 cm 3. 26 cm and 18 cm 4. 20 cm and 12 cm 86. Factors of the quadratic expression $x^2 + 4\sqrt{2} x + 6$ is	77.	A circle is inscribed in an equilateral triangle and a square is inscribed in the circle.
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80.If the points A(7, 3), B(9, 4), C(8, k) and D(6, 1) taken in order, are the vertice rectangle, then the value of k is1. 52. 23. 64. 381.The compound interest on ₹100 at the rate of 10% per annum, interested half yearly, after one year iscomp half yearly, after one year is1. ₹102. ₹ 113. ₹10.504. ₹10.2582.The number of times, the two hands of a clock make a right angle between 1 to 12 mid-night is1. 122. 223. 234. 2483.Two natural numbers are such that their product, sum and difference are in t 24 :7 :1. The product of the two numbers is1. 482. 243. 124. 684.Nineteen boys turn out for baseball. Of these 11 are wearing baseball shirts and wearing baseball pants. There are no boys without one or the other. The number wearing full uniforms is1. 32. 53. 64. 885.If the sum of the two radii of two circles is 7 cm and the difference of their circum is 8 cm, the two circumferences will be1.34 cm and 26 cm2. 28 cm and 20 cm3. 26 cm and 18 cm86.Factors of the quadratic expression $x^2 + 4\sqrt{2} x + 6$ is	79.	on cash payments. In the transaction he gets
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24 :7 :1. The product of the two numbers is1. 482. 243. 124. 684.Nineteen boys turn out for baseball. Of these 11 are wearing baseball shirts and wearing baseball pants. There are no boys without one or the other. The number wearing full uniforms is1. 32. 53. 64. 885.If the sum of the two radii of two circles is 7 cm and the difference of their circum is 8 cm, the two circumferences will be1.34 cm and 26 cm2. 28 cm and 20 cm3. 26 cm and 18 cm4. 20 cm and 12 cm86.Factors of the quadratic expression $x^2 + 4\sqrt{2}x + 6$ is		1. 12 2. 22 3. 23 4. 24
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 85. If the sum of the two radii of two circles is 7 cm and the difference of their circum is 8 cm, the two circumferences will be 1.34 cm and 26 cm 2. 28 cm and 20 cm 3. 26 cm and 18 cm 4. 20 cm and 12 cm 86. Factors of the quadratic expression x² + 4√2 x + 6 is 	84.	Nineteen boys turn out for baseball. Of these 11 are wearing baseball shirts and 14 are wearing baseball pants. There are no boys without one or the other. The number of boys wearing full uniforms is
is 8 cm, the two circumferences will be 1.34 cm and 26 cm 2. 28 cm and 20 cm 3. 26 cm and 18 cm 4. 20 cm and 12 cm 86. Factors of the quadratic expression $x^2 + 4\sqrt{2}x + 6$ is		1.3 2.5 3.6 4.8
86. Factors of the quadratic expression $x^2 + 4\sqrt{2}x + 6$ is	85.	
86. Factors of the quadratic expression $x^2 + 4\sqrt{2}x + 6$ is		1.34 cm and 26 cm 2. 28 cm and 20 cm 3. 26 cm and 18 cm 4. 20 cm and 12 cm
1. $(x + \sqrt{2})(x + 3\sqrt{2})$ 2. $(x - 2)(x + 3\sqrt{2})$	86.	Factors of the quadratic expression $x^2 + 4\sqrt{2}x + 6$ is
		1. $(x + \sqrt{2})(x + 3\sqrt{2})$ 2. $(x - 2)(x + 3\sqrt{2})$ 3. $(x - \sqrt{2})(x - 3\sqrt{2})$ 4. $(x + 2)(x + 3\sqrt{2})$
3. $(x - \sqrt{2})(x - 3\sqrt{2})$ 4. $(x + 2)(x + 3\sqrt{2})$		3. $(x - \sqrt{2})(x - 3\sqrt{2})$ 4. $(x + 2)(x + 3\sqrt{2})$

87.	The median of	f the data 30, 25, 2	7, 25.8, 29, 35, 38	, 28 is	
	1. 28.5	2.29.5	3. 28	4. 29	
88.	A train is mov	ving with a unifor	m speed. It crosse	s a railway platform 120 metres long i in 16 seconds. The speed of the train pe	
	1. $12\frac{1}{2}$ m/sec	2. 10 m/sec	3. $10\frac{5}{10}$ m/sec	c 4. $10\frac{3}{4}$ m/sec	
89.	The sum of the	e squares of the fin	est <i>n</i> natural number	ers is	
	$1. \frac{n(n+1)}{2}$	2. $\frac{n(n+1)(2n+1)}{6}$	$\frac{1}{12}$ 3. $\frac{n(n+1)(n+2)}{12}$	$\frac{4. \frac{n(n+1)(2n+1)}{12}}{\text{of } 2: 1 \text{ and their volumes are equal}}$	
90.		s of two cylinder eir heights will be		of 2: 1 and their volumes are equa	ıl.
	1. 1: 6	2. 1: 2	3. 1: 4	4. 3: 4 tion must a house holder reduce his	
91.			50%. By what fract to increase his expo		
	1. 1/4	2. 1/3	3. 1/2	4. 2/3	
92.	A sphere of di whose diamete	ameter 10 cm wei		eight of a sphere of the same material	
	1. 2.64 kg	2. 1.584 kg	3. 0.950 kg e 1, 3, 11, 43,	4. 1.675 kg	
93.	What comes n	ext in the sequenc	e 1, 3, 11, 43,	?	
	1. 161	2. 171	3. 181	4. 191	
94.	The sum of the Find the intege	e squares of two c		e integers exceeds their product by 91.	
	1.9 and 10	2. 10 and 11	3. 11 and 12	4. 12 and 13	
95.	The 20 th term	of the A.P. 7, 3,	3. 11 and 12 -1, -5, Is		
	159	269	$\frac{337}{\text{oduct } 2345 \times 6789}$	445	
96.	Find the last ty	wo digits of the pr	oduct 2345×6789		
	1.15	2. 05	3. 25	4. 35	
97.			-	t 8% and other at 10% interest. The punt lent in two parts.	
	1. Rs 8000, Rs 4. Rs 6000, Rs	s 4000	·	3. Rs 5000, Rs 5000	
98.		upstream of a rive		km/hr. He finds that it takes him twice tream of the same river. Find the speed	
	1. 4/3 km/hr	2. $\frac{3}{2}$ km/hr	3. 7/4 km/hr	4. 6/5 Km/hr	

99.				nother pipe. If together the two pip slower pipe alone take to fill the ta	
				4. 110 min	
100.				then coefficient of variation is	
	1.15	2.25	3. 17	4. 19 10 seconds. The time taken by A to	
101.	In a kilometre ra complete the rac		by 50 metres or	10 seconds. The time taken by A to	0
	1.90 seconds	2. 120 secon	nds 3. 190 seco	onds 4. 200 seconds	
102.	It is 10: 00 am c after 400 hours	urrently in the	digital watch. W	What time will the watch show (in a	um or pm)
	1. 4: 00 am	2. 3:00 pm	3.5:00 pm	4. 2: 00 am	
103.		ch a grocer mi	xes two varieties	s of pulses costing ₹85 per kg and	₹100
			3.5:7		
104.	If $\cos A = 2 \sin^2 A$	A, find the va	llue of <i>cosecA</i> is	S	
	1.1	$2. \pm \sqrt{5}$	3. $\frac{1}{2}$	4. $\pm\sqrt{3}$	
105.	An agent make	es a profit of	20% even afte	er giving 10% discount on the a f a scooter, the advertised price is	advertised
	1.₹4500	2.₹4750	3. ₹5000	4.₹5250	
106.	If $3^{4x-2} = 729$,	then the value	of <i>x</i> is		
	1. 3	2. 1.2	3.2	4. None of these	
107.				ater in the ration 3: 1. Find the a e alcohol and water in the ratio 4: 1	
	1.5 litres	2.7 litres	3. 3 litres	4. 10 litres	
108.	Pure milk costs mixture at ₹60 pe	-		water to 25 litres of pure milk and se r added is	ells the
	1. 3 litres	2.5 litres	3.7 litres	4. None of these	
109.				f 40 km per hour and returns along ge speed in km per hour for the ent	
	1.45	2.48	3.50	4. None of these	
110.	In what time a tr	ain 100 metres	s long with a spe	eed of 50 km/hr cross a pillar?	
	1. 7.0 seconds	2.72 second	s 3. 7.2 secon	nds 4. 70 seconds	

111.	The edge of a cube is 4 cm. The greatest sphere is cut out of the cube. The surface of the sphere will be
	1. 16 π sq.cm 2. 64 π sq.cm 3. $\frac{16}{3}\pi$ sq.cm 4. $\frac{64}{3}\pi$ sq.cm If the co-ordinates of opposite vertices of a square are (1, 3) and (6, 0), then the length of a
112.	If the co-ordinates of opposite vertices of a square are $(1, 3)$ and $(6, 0)$, then the length of a side of a square is
	1. $\sqrt{34}$ 2. $\sqrt{17}$ 3. 17 4. 12
113.	In a class of 28 boys, 15 boys play football, 18 boys play hockey and 10 boys play football and hockey both. How many boys play neither football nor hockey?
	1. 102. 53. 84. 15A sum becomes twice in 3 years at a certain rate of compound interest. In how many years
114.	will it become 16 times at the same rate of interest?
115	1. 16 years2. 12 years3. 24 years4. 6 yearsThe distance of the origin from the point of intersection of $x + y = 11$ and $x - y - 3 = 0$
115.	The distance of the origin from the point of intersection of $x + y = 11$ and $x - y - 3 = 0$ is
	1. 7 2. 14 3. $\sqrt{65}$ 4. $\sqrt{33}$
116.	1.72.14 $3.\sqrt{65}$ $4.\sqrt{33}$ A pump can fill a tank with water in 2 hours. Due to leakage, it took $2\frac{1}{3}$ hours to fill the tank. If the leakage can drain all the water of tank in x hours, then the value of x is
	1. 14 hours2. 15 hours3. 16 hours4. 12 hoursTwo equal circles in the same plane can have at the most the following number of
117.	Two equal circles in the same plane can have at the most the following number of common tangents
	1.3 2.2 3.4 4.1
118.	1.32.23.44.1The cost of 9 chairs and 3 tables is ₹306, while the cost of 8 chairs and 2 tables is ₹246.Then the cost of 6 chairs and 1 table is
	1. ₹ 164 2. ₹ 165 3.₹166 4. ₹ 186 If $a - b = 3$ and $a^3 - b^3 = 117$, then $a + b$ is equal to
119.	If $a - b = 3$ and $a^3 - b^3 = 117$, then $a + b$ is equal to
	1.52.73.94.11Two pipes A and B can fill a tank in 24 minutes and 32 minutes respectively. If both the
120.	Two pipes A and B can fill a tank in 24 minutes and 32 minutes respectively. If both the pipes are opened simultaneously, after how much time B should be closed so that the tank is full in 18 minutes?
	1. 8 minutes 2. 7 minutes 3. 10 minutes 4. 15 minutes

	SECTION-SOCIAL STUDIES
121.	Match the term with the statements given below:
	A 'Utopian Society' is
	(i) a society under a benevolent monarchy (ii) a society that is unlikely to over exist
	(ii) a society that is unlikely to ever exist(iii) a society under the control of a chosen few wise men
	(iv) a society under Parliamentary Democracy
	(iv) a society under Famamentary Democracy
	(1) (i) and (ii) (2) (ii) and (iii) (3) (ii) only (4) (iii) only
122.	The World Bank classifies countries based on which criteria to determine whether
	they are low, middle, or high-income countries?
	(1) Per Capita Income (2) Gross Domestic Product (GDP) (2) Harris Development Index (HDI)
102	(3) Human Development Index (HDI) (4) Life Expectancy
123.	Which one of the following is not true regarding the Gandhi-Irwin Pact of 1931?
	(1) Mahatma Gandhiji decided to call off the Civil Disobedience Movement
	(2) Gandhiji consented to participate in a Round Table Conference
	(3) The British government agreed to release the political prisoners
	(4) The British government agreed to grant independence
124.	Which one of the following is not a cause of communalism?
	(1) Religion is taken as the basis of the nation
	(2) When one religion is discriminated against another
	(3) State has no official religion
105	(4) Demands of one religious group are formed in opposition to another
125.	How can industrialisation assist in bringing in foreign exchange?
	(1) Modernisation of agriculture
	(2) Removing dependence on agriculture by providing alternative employment
	(3) Export of manufactured goods
	(4) Import of manufactured goods
126.	Large reserves of natural gas of India have been discovered in
	(1) Arabian Sea
	(2) Andaman Nicobar Islands
	(3) Krishna Godavari Basin
107	(4) Gulf of Mannar
127.	Which one of the following is the main cause of land degradation in Punjab?
	(1) Extensive cultivation
	(2) Deforestation
	(3) Over-grazing
	(4) Over-irrigation

128.	Oceanic resources beyond 200 km of the Exclusive Economic Zone can be termed as:
	(1) Individual resources
	(2) Community-owned resources
	(3) National Resources
	(4) International resources
129.	Which of the following is not one of the reasons for criticism of multipurpose river
	valley projects?
	(1) They create a rockier stream-bed
	(2) They create poorer habitats for the river's aquatic life
	(3) The reservoirs created in the floodplains submerge vegetation
	(4) They help in the generation of hydroelectricity
130.	'Slash and burn agriculture' is:
	(1) Shifting agriculture
	(2) Intensive agriculture
	(3) Commercial agriculture
	(4) None of these
131.	Sariska Wildlife Sanctuary is located in
	(1) Rajasthan
	(2) Uttar Pradesh
	(3) Gujarat
	(4) West Bengal
132.	Government in which power is shared by two or more political parties is known as:
	(1) Community Govt.
	(2) Unitary Govt.
	(3) Federal Govt.
	(4) Coalition Govt.
133.	A system that values men more and gives them power over women is called:
	(1) Feminist
	(2) Socialist
	(3) Patriarchy
	(4) Communist
134.	Which of the following groups of states has the largest number of cotton textile
	centers?
	(1) Gujarat and Maharashtra
	(2) Karnataka and Tamil Nadu
	(3) Maharashtra and Madhya Pradesh
127	(4) Uttar Pradesh and Gujarat
135.	What system governs international oceanic resources?
	(1) National laws
	(2) Community agreements
	(3) United Nations conventions
	(4) Exclusive zones

136.	Which one of the following factors is responsible for the sugar mills to shift and
	concentrate in the southern and western states of India?
	(1) Sugarcane is a bulky raw material
	(2) The sucrose content reduces with distance
	(3) The sugarcane produced has higher sucrose content
	(4) The cooperative is not successful
137.	Which of the following is NOT a reason for power sharing in a democracy?
	(1) It helps to reduce the possibility of conflict
	(2) It ensures the stability of the government
	(3) It decreases public participation in government
	(4) It accommodates the diversity of the society
138.	Which one of the following is not true regarding the importance of manufacturing
	industries?
	(1) They generate jobs in the secondary and tertiary sectors
	(2) Export of manufactured goods brings in foreign exchange
	(3) Manufacturing industries encourage trade and commerce
	(4) The economic strength of a country is measured in terms of the raw material it
	possesses
139.	What does a democratic government ensure?
1071	
	(1) Effective military dictatorship
	(2) Equal rights for all citizens
	(3) Unequal distribution of power
	(4) Lack of accountability
140.	Who amongst the following led the Civil Disobedience Movement in Peshawar?
110.	who amongst the following led the of the Disobelience workenent in I eshawar .
	(1) Abdul Gaffar Khan
	(2) Maulana Abul Kalam Azad
	(3) Lala Lajpat Rai
	(4) Jawaharlal Nehru
141.	Who among the following formed the secret society called 'Young Italy'?
1 11.	who among the following for med the secret society cance. I bung ftary.
	(1) Otto von Bismarck
	(2) Giuseppe Mazzini
	(3) Metternich
	(4) Johann Gottfried Herder
142.	Print culture in France led to:
172.	Time culture in France leu to.
	(1) Spread of enlightened ideas
	(2) Mockery of monarchy
	(3) Public debates and discussions
	(4) All of the above
1	

143.	The resolution of Poorna Swaraj was adopted at which session of the Congress?
	(1) Karachi
	(2) Haripur
	(3) Lahore
1.1.1	(4) Lucknow
144.	Which of the following statements about the 'French Revolution' are correct?
	(i) After the and of the French Develution it was are claimed that the maanle would
	(i) After the end of the French Revolution, it was proclaimed that the people would henceforth constitute the nation and shape its destiny.
	(ii) France will have a constitutional monarchy and the new republic will be headed by a
	member of the royal family.
	(iii) A centralised administrative system will be put in place to formulate uniform laws for
	all citizens.
	(iv) Imposition of internal customs duties and dues will continue to exist in France.
	(1) (ii) and (iii) (2) (ii) and (iv) (3) (i) and (iii) (4) (iii) and (iv)
145.	Which of the following statements is correct regarding the distribution of economic
	benefits in democracies?
	(a) Incomes of both the rich and the poor have been increasing
	(b) Incomes of both the rich and the poor have been declining
	(c) Incomes of the rich have been increasing and those of the poor have been declining
146	(d) None of the above
146.	Which one of the following is not one of the aspects of the federal division of powers?
	(1) Sharing of new are among control provincial and local governments
	(1) Sharing of powers among central, provincial, and local governments(2) Division of powers involving higher and lower levels of government
	(3) The Constitution clearly lays down the powers of different levels of government
	(4) There is no vertical division of powers
147.	Arrange the following statements in sequential order based on the events that shaped
	the Non-Cooperation movement.
	1. General Dyer opened fire at the large crowd gathered in the enclosed ground of
	Jallianwala Bagh.
	2. Forced recruitment carried out by the British government and the economic hardships
	faced by the people during the First World War.
	3. The defeat of the Ottoman Emperor of Turkey led to the formation of the Khilafat
	Movement.
	4. Gandhiji launched a nationwide satyagraha against the Rowlatt Act.
	(1) 4, 3, 2, 1 (2) 2, 1, 4, 3 (3) 1, 4, 3, 2 (4) 1, 2, 3, 4

148.	Who first painted Bharat Mata as a divine figure dispensing learning, food, and
	clothing?
	(1) Rabindranath Tagore
	(2) Abnindranath Tagore
	(3) Bankim Chandra Chattopadhyay
	(4) None of these
149.	There are two statements given below, marked as Assertion (A) and Reason (R).
	Read the statements and choose the correct option.
	Assertion (A): Napoleon destroyed monarchy from France.
	Reason (R): Napoleon simplified administrative divisions, abolished the feudal system
	and freed peasants from serfdom and manorial dues.
	(1) A is true but R is false.
	(2) A is false but R is true
	(3) Both A and R are true & R is the correct explanation of A.
	(4) Both A and R are true & R is not the correct explanation of A.
150.	The Maha Kumbh Mela is celebrated every 12 years to match with one revolution of
	around the sun.
	(1) Earth
	(2) Mars
	(3) Jupiter
	(4) None of the above

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