

Test Booklet Code B

Test Booklet Serial No.

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04 JANUARY 2026

Marks: 600

Time: 180 minutes

ROLL NO.: _____	NAME: _____
SIGNATURE: _____	DATE/TIME: _____
INSTRUCTIONS FOR THE CANDIDATES	
1.	The question booklet contains English Section (Q 1-40), Mathematics Section (Q 41-120) and Social Studies (Q 121-150). All questions are compulsory.
2.	Before attempting the paper carefully read the Instructions on the Answer Sheet (OMR Sheet) supplied separately.
3.	At the start of the examination, please ensure that all pages of your Test Booklet are properly printed; your Test Booklet is not damaged in any manner and contains 150 questions. In case of any discrepancy the candidate should immediately report the matter to the invigilator for replacement of the Test Booklet. No claim in this regard will be entertained at a later stage.
4.	An OMR Answer Sheet is being provided separately along with this Test Booklet. Please fill up all relevant entries like Roll Number, Test Booklet Serial No., Centre Number, etc. in the spaces provided on the OMR Answer Sheet and put your signature in the box provided for this purpose.
5.	Make sure to fill the correct 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 indicated therein, it will be deemed to be an incorrect Booklet Code and the Answer Sheet will not be evaluated. The candidate himself will be solely responsible for all the consequences arising out of any error or omission in writing the test Booklet code.
6.	This Test Booklet consists of 15 pages containing 150 questions & 05 pages for rough work. Against each question four alternative choices (1), (2), (3), (4) are given, out of which one is correct. Indicate your choice of answer by darkening the suitable circle with BLACK/BLUE pen in the OMR Answer Sheet supplied to you separately. USE OF PENCIL IS STRICTLY PROHIBITED. 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) for each incorrect answer.
8.	Do not fold or make any stray marks on the OMR Answer Sheet. Any stray mark or smudge on the OMR Answer Sheet may be taken as a wrong answer. Any damage to the OMR Answer Sheet may result in disqualification of the candidate.
9.	On completion of the test, candidate must hand over the OMR Answer Sheet to the Invigilator on duty in the room/hall. The Question Booklet may be retained.
10.	Use of Mobile phones, wrist watches and calculators etc. are not allowed.
11.	Keep all your belongings outside 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 passages with five questions following each passage. Read the passage carefully and choose the best answer out of the four alternatives

1. We live in an age of wonders and miracles. It has been called the ‘Age of Science’ and 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.

5. 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.

6. 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.

7. 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?

8. 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.	According to the passage, it is like one side of the coin to say that life has changed owing to science	as
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	<ol style="list-style-type: none"> 1. age of science has brought wonders and miracles. 2. different aspects of life have changed due to science. 3. there is another side of the coin to look at. 4. this side of coin is true and sufficient to look at.
2.	<p>Which of the following is not true about the internet?</p> <ol style="list-style-type: none"> 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.
3.	<p>Internet hampers the holistic growth of a child by ...</p> <ol style="list-style-type: none"> 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.
4.	<p>According to the passage, true happiness lies in</p> <ol style="list-style-type: none"> 1. simple acts of kindness 2. rapid development 3. multi-billion-dollar skyscrapers 4. pursuit of money
5.	<p>The word 'veritable' in para 2 means:</p> <ol style="list-style-type: none"> 1. Actual 2. Big 3. Latest 4. Perfect

PASSAGE 2

1. The Global Teacher Prize is a US 1 million award presented annually to an exceptional teacher who has made an outstanding contribution to their profession. A few years ago, an educational charity called the Varkey Foundation was concerned that many problems around the world are caused by lack of education. They decided to ask Populus, a leading research company, to find out more, by comparing education in countries around the world.

2. One section was on how teaching compares with other professions. Their investigation also covered many other key topics, such as, are children encouraged to become teachers. The results of this survey, published in 2013, shocked the Chairman of the Varkey Foundation, whose parents had both been teachers. Therefore, in the same year, he decided to establish the Global Teacher Prize, with the overall intention of raising the profile of the teaching profession. The first prize was awarded in 2015.

3. The process of choosing a winner is a lengthy one. People can name a teacher they know, or a teacher can apply themselves. In the first year, teachers from 127 different countries were nominated, and over 5,000 applications were received. After the closing date, a team of judges carefully selects 10 finalists, who gather in Dubai for an exciting event where the award is presented.

4. The winner in the first year was Nancie Atwell, a teacher from the USA, and media interest in her success was enormous. After accepting her prize, Nancie gave a speech in which she talked about the fact that as a teacher you can make a real difference to students' lives. Nancie discovered a love of books when she was a child, and went on to become an English teacher. Like many other

teachers, she enjoys the chance to be creative in the classroom. She developed a technique called the writing-reading workshop, which she first described in her book 'In The Middle'.

5. The 2016 competition was also a great success. The award was presented to a primary school teacher called Hanan Al Hroub. She developed her own specialist teaching approach, which is based on developing trusting and friendly relationships with students, paying attention to their individual needs, and above all, rewarding positive behaviour.

6. She wrote about this in her book 'We Play and Learn', which has inspired other teachers to review the way they teach. Would you consider going into the teaching profession? After all, no two days are the same, which is what attracts many to teaching in the first place. Perhaps the Global Teacher Prize can inspire more people to try to become the Outstanding teachers of the future!

6.	Which organisation carried out a survey into education? 1. Populas 2. Global Teacher 3. Varkey Foundation 4. Play and Learn
7.	What questions did the education survey include? 1. how teaching is compared with other professions 2. whether children are encouraged to become teachers 3. both (1) and (2) 4. neither (1) nor (2)
8.	When was the Global Teacher Prize set up? 1. 2012 2. 2013 3. 2015 4. 2016
9.	What is the main aim of the Global Teacher Prize? 1. making teaching popular 2. to arouse media's interest 3. making teaching interesting 4. raising profile of teaching
10.	How many teachers entered for the prize in the first year? 1. 1,000 2. 2,000 3. over 5,000 4. 5,000

Directions (Questions 11 to 12). Fill in the blanks with a word from amongst the choices given

11.	Her pride had taken a _____ at her boyfriend leaving her 1. beating 2. reverse 3. bend 4. boost
12.	The _____ of her late arrival at work was a late departure 1. affect 2. effect 3. return 4. effects

Directions (Questions 13 to 14). In these questions, out of the four alternatives, choose the one which can be the appropriate substitute

13.	The highest point of development or the most outstanding example of something
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	1. zenith 2. nadir 3. apogee 4. acme
14.	A 14-line poem generally about love 1. allegory 2. sonnet 3. limerick 4. elegy
Directions (Questions 15 to 16). Reorder P, Q, R, S to make meaningful sentences.	
15.	P: pet dog Q: Rahul R: with his S: enjoys playing 1. QPSR 2. QSRP 3. QSPR 4. PSRQ
16.	P: the company Q: goods R: to Vietnam S: exports 1. PQRS 2. RPQS 3. PSQR 4. RQPS
Directions (Questions 17 to 18). A part in the following sentences is underlined, which may/may not be correct. Improve the sentence by choosing one of the options. If no improvement is possible choose the option accordingly.	
17.	The book <u>comprises of five chapters.</u> 1. no improvement 2. comprises five chapters 3. comprises chapters five 4. of five chapters
18.	Anil and <u>me went to town.</u> 1. I went to town 2. no improvement 3. me came to town 4. town we went
Directions (Questions 19 to 20). Fill the blanks with the appropriate option from the four.	
19.	Although it was raining, she went for a walk _____ an umbrella. 1. with 2. for 3. without 4. from
20.	Fate smiles _____ those who struggle 1. with 2. on 3. over 4. without
Directions (Questions 21 to 25). In these questions, out of the four alternatives, choose the one which best expresses the meaning: -	
21.	Enormous 1. Tiny 2. Infinitesimal 3. Vast 4. Diminutive
22.	Fostering 1. Safeguarding 2. Destroy 3. Suppress 4. Neglect
23.	Intricate 1. Straightforward 2. Complicated 3. Plain 4. Clear
24.	Perspicacity 1. Ignorance 2. Insight 3. Obtuseness 4. Dullness
25.	Authentic 1. Credible 2. Spurious 3. Unreliable 4. Counterfeit

Directions (Questions 26 to 30). Find the correctly spelt word out of the four alternatives	
26.	1. liquefy 2. liquify 3. liqueify 4. liquifey
27.	1. bureacracy 2. bueraucracy 3. bureaucracy 4. bureucracy
28.	1. connoissuer 2. connoisseur 3. connoiseur 4. conoisiseur
29.	1. questionnaire 2. questionnare 3. questionaire 4. questionnaire
30.	1. entrepreneur 2. intreprenneur 3. entreprenneur 4. enterprenneur
Directions (Questions 31 to 35). Choose the alternative which best expresses the meaning of the idiom/phrase in <i>italics</i> in the sentence.	
31.	Rohan on meeting with an accident had to <i>bite the bullet</i> 1. answer difficult questions bravely 2. convince people 3. face the difficult situation bravely 4. run from the site
32.	While speaking to his girlfriend he <i>let the cat out of the bag</i> 1. released his pet cat 2. revealed a secret 3. expressed his fondness 4. expressed his praise for her cat
33.	The ring <i>cost an arm and a leg</i> 1. was of a dead person 2. was very cheap in money terms 3. was not available 4. was very expensive
34.	All his classmates were with him <i>through thick and thin.</i> 1. anti him 2. through good times and bad 3. whenever he opened his lunch box 4. throughout the class
35.	During the interview he <i>hit the nail on the nail.</i> 1. answered wrongly 2. said something right 3. was very frank 4. avoided saying anything
Directions (Questions 35 to 40). In these questions, choose the word which is the closest opposite in meaning of the given word.	
36.	Ephemeral 1. Transitory 2. Momentary 3. Lasting 4. Fleeting
37.	Incongruous 1. Inappropriate 2. Harmonious 3. Wrong 4. Irrelevant
38.	Altruism 1. Egoism 2. Selflessness 3. Benevolence 4. Charity
39.	Fervent 1. Heartfelt 2. Enthusiastic 3. Passionate 4. Apathetic
40.	Imminent 1. Approaching 2. In the offing 3. Distant 4. Forthcoming

SECTION-MATHEMATICS	
41.	If $n = 2^3 \times 3^4 \times 5^4 \times 7$, then the number of consecutive zeroes in n , where n is a natural number, is 1. 2 2. 3 3. 4 4. 7
42.	The zeroes of the quadratic polynomial $f(x) = x^2 + 99x + 127$ are 1. Both positive 2. both negative 3. one positive and one negative 4. both equal
43.	If the sum of LCM and HCF of two numbers is 1260 and their LCM is 900 more than their HCF, then the product of two numbers is 1. 203400 2. 194400 3. 198400 4. 205400
44.	In $\triangle ABC$, $\angle B = 90^\circ$ and $\tan A = \frac{2\sqrt{h^2-ab}}{(a+b)}$, then what is the value of $\cos A$? 1. $\frac{(a-b)}{(a+b)}$ 2. $\frac{(a+b)}{\sqrt{(a-b)^2+4h^2}}$ 3. $\sqrt{\frac{(a+b)^2-4h^2}{(a-b)^2+4h^2}}$ 4. $\frac{(a-b)}{2\sqrt{h^2-ab}}$
45.	Find the sum of all the three-digit numbers which leave the remainder 1 when divided by 7. 1. 70,464 2. 70,471 3. 70,557 4. 71,256
46.	The perimeter of a rectangular room is 82 cm and length of a diagonal is 29 cm. Find its area. 1. 400 cm^2 2. 356 cm^2 3. 575 cm^2 4. 420 cm^2
47.	How many prime numbers are of the form $10n + 1$, where n is a natural number such that $1 \leq n < 10$? 1. 5 2. 6 3. 4 4. 3
48.	20 litres of a mixture contain milk and water in the ratio 3: 1. The amount of milk, in litres to be added to the mixture so as to have milk and water in the ratio 4: 1 is 1. 7 2. 4 3. 5 4. 6
49.	There is a visit in a school by Directorate of Education. Girls are asked to prepare a rangoli in triangular shape. Dimensions of $\triangle ABC$ are 26 cm, 28 cm and 25 cm. Garland is to be placed along the sides of $\triangle PQR$, which is formed by joining mid-points of sides of $\triangle ABC$. Find the length of garland. 1. 36 cm 2. 39.5 cm 3. 26.3 cm 4. 46 cm
50.	A rectangular sheet of paper $44 \text{ cm} \times 18 \text{ cm}$ is rolled along its length and a cylinder is formed. The volume of the cylinder so formed is equal to 1. 2772 cm^3 2. 2506 cm^3 3. 2460 cm^3 4. None of these
51.	Given the pair of linear equations: $mx + 4y - 6 = 0$ and $ny - 12x + 12 = 0$ For what values of m and n do the above equations have infinitely many solutions 1. $m = -1$ and $n = 2$ 2. $m = -1$ and $n = 3$ 3. $m = 6$ and $n = -8$ 4. $m = 6$ and $n = -2$

52.	Ginny flipped a fair coin three times and tails came up each time. Ginny wants to flip the coin again. What is the probability of getting heads in the next coin flip?
	1. 0 2. 0.25 3. 0.5 4. 1
53.	The mean age of combined group of men and women is 35 years. If the mean age of men is 36 years and that of women is 32 years. Find the percentage of women in the group.
	1. 25% 2. 75% 3. 27% 4. 23%
54.	If $\frac{-3}{\sqrt{3+\sqrt{2}}} - \frac{3\sqrt{2}}{\sqrt{6+\sqrt{3}}} + \frac{4\sqrt{3}}{\sqrt{6+\sqrt{2}}} = a\sqrt{2} + b\sqrt{3}$, then find the value of $a + b$.
	1. 0 2. 1 3. 2 4. -1
55.	A boat running downstream covers a distance of 16 km in 2 hours while for covering the same distance upstream it takes 4 hours. What is the speed of the boat in still water?
	1. 4 km/h 2. 6 km/h 3. 8 km/h 4. 10 km/h
56.	If the LCM of two prime numbers p and q ($p > q$) is 221, then the value of $3p - q$ is
	1. 4 2. 28 3. 38 4. 48
57.	In an arithmetic progression, the sum of the first 24 terms is 996 and its fourth term is 16. Choose the first term of the given arithmetic progression.
	1. 6 2. 7 3. 8 4. -6
58.	Find the smallest number which when divided by 32, 45 and 68 leaves remainder 5 in each case.
	1. 24480 2. 7560 3. 24485 4. 7565
59.	A jar full of whisky contains 40% alcohol. A part of this whisky is replaced by another containing 19% alcohol and now the percentage of alcohol is found to be 26%. The quantity of whisky replaced is
	1. $\frac{1}{3}$ part 2. $\frac{2}{3}$ part 3. $\frac{2}{5}$ part 4. $\frac{3}{5}$ part
60.	Choose the distance between the points $(\sec^2\theta, \cos^2\theta)$ and $(\tan^2\theta, -\sin^2\theta)$
	1. 1 2. 0 3. $\sqrt{2}$ 4. $\sqrt{5}$
61.	The median of a set of 9 observations is 20.5. If each of the largest 4 observations of the set is increased by 2, then the median of the new set
	1. Remains the same as that of the original set. 2. Is increased by 2 3. Is decreased by 2 4. Is two times the original median

62.	The graph of the polynomial $p(x) = x^2 + 1$ 1. intersects $x - axis$ at two distinct points 2. touch $x - axis$ at a point 3. neither touches nor intersects $x - axis$ 4. never intersects $y - axis$												
63.	The difference between the sides at right angle in a right-angled triangle is 14 cm. The area of the triangle is 120 cm^2 . Calculate the perimeter of the triangle 1. 45 cm 2. 50 cm 3. 54 cm 4. 60 cm												
64.	The angle of elevation of the top of an incomplete vertical pillar at a horizontal distance of 100 m from its base is 45° . If the angle of elevation of the top of the complete pillar at the same point is to be 60° , then the height of the incomplete pillar is to be increased by 1. $50\sqrt{2} \text{ m}$ 2. 100 m 3. $100\sqrt{3} \text{ m}$ 4. $100(\sqrt{3} - 1) \text{ m}$												
65.	What should be the value of c so that the roots of the quadratic equation: $-2x^2 + 6x + c = 0$ are real? 1. $c < \frac{9}{2}$ 2. $c < \frac{-9}{2}$ 3. $c < 0$ 4. $c > \frac{-9}{2}$												
66.	In ΔABC , $AB = 4\sqrt{2} \text{ cm}$, $AC = 7 \text{ cm}$ and $\angle BAC = 45^\circ$. Find the area of the ΔABC . 1. 12 cm^2 2. 14 cm^2 3. 16 cm^2 4. 18 cm^2												
67.	Find the median for the following data: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Classes</th> <th>0 - 10</th> <th>10 - 20</th> <th>20 - 30</th> <th>30 - 40</th> <th>40 - 50</th> </tr> </thead> <tbody> <tr> <td>Frequency</td> <td>8</td> <td>26</td> <td>36</td> <td>34</td> <td>16</td> </tr> </tbody> </table> 1. 20 2. 27.22 3. 28.14 4. 32	Classes	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	Frequency	8	26	36	34	16
Classes	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50								
Frequency	8	26	36	34	16								
68.	In a 1000 m race, A reaches the final point in 56 seconds and B reaches in 70 seconds. By how much distance does A beat B? 1. 100 m 2. 120 m 3. 150 m 4. 200 m												
69.	If the zeroes of the polynomial $x^3 - 12x^2 + 44x + c$ are in A.P, then the value of c is 1. 44 2. 48 3. -44 4. -48												
70.	If n is any natural number, then $6^n - 5^n$ always ends with 1. 1 2. 3 3. 5 4. 7												
71.	One end of the diameter of a circle whose centre is at $(-4, 2)$ is $(-13, 6)$. What are the coordinates of the other end of the diameter? 1. $(-5, 2)$ 2. $(-5, -2)$ 3. $(5, -2)$ 4. $(5, 2)$												
72.	A person travels from P to Q at a speed of 40 km/h and returns by increasing his speed by 50%. What is his average speed for both the trips? 1. 40 km/h 2. 45 km/h 3. 50 km/h 4. 48 km/h												
73.	If $a, \frac{a^{n+1} + b^{n+1}}{a^n + b^n}, b$ are in A.P., then choose the value of n . 1. $\frac{1}{2}$ 2. 0 3. -1 4. 1												

84.	Over the past 150 working days, the number of defective parts produced by a machine is given in the following table. <table border="1"> <tbody> <tr> <td>No. of defective parts</td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> </tr> <tr> <td>Days</td> <td>15</td> <td>32</td> <td>22</td> <td>24</td> <td>28</td> <td>12</td> <td>17</td> </tr> </tbody> </table> <p>Determine the probability that tomorrow's output will have not more than 4 defective parts.</p> <p>1. 0.686 2. 0.1 3. 0.806 4. 0.71</p>	No. of defective parts	0	1	2	3	4	5	6	Days	15	32	22	24	28	12	17
No. of defective parts	0	1	2	3	4	5	6										
Days	15	32	22	24	28	12	17										
85.	If the perimeter of a circle is equal to that of a square, then the ratio of their areas is <p>1. 22: 7 2. 14: 11 3. 7 : 22 4. 11: 14</p>																
86.	Two trains are running in opposite directions with the same speed. If the length of each train is 120 metres and they cross each other in 12 seconds, then find the speed of each train (in km/hr)? <p>1. 30 km/hr 2. 36 km/hr 3. 45 km/hr 4. 40 km/hr</p>																
87.	A begins a business with ₹85,000. After 2 months, B joined him with a certain capital. At the end of the year, the profits were divided in the ratio 5 :2. How much did B invest? <p>1. ₹50,000 2. ₹40,800 3. ₹40,000 4. ₹60,000</p>																
88.	If $\sec\theta + \tan\theta = p$, then the value of $\frac{p^2-1}{p^2+1}$ is <p>1. $\tan\theta$ 2. $\sin\theta$ 3. $\cos\theta$ 4. $\sec\theta$</p>																
89.	If the circumference of a circle is increased by 50%, then its area will be increased by <p>1. 100% 2. 125% 3. 150% 4. 75%</p>																
90.	Three fair coins are tossed simultaneously. Find the probability of getting at most two tails. <p>1. $\frac{3}{8}$ 2. $\frac{7}{8}$ 3. $\frac{1}{2}$ 4. $\frac{1}{8}$</p>																
91.	A mason has to fit a kitchen with a square marble tiles of the largest possible size. The size of the kitchen is 21 yards by 28 yards. What would be the size (in ft.) of the tile required that has to be cut and how many such tiles are required respectively? <p>1. 7, 20 2. 21, 12 3. 20, 43 4. 91, 6</p>																
92.	Pure milk costs ₹ 72 per litre. If a milkman adds water to 25 litres of pure milk and sells the mixture at ₹ 60 per litre, then the quantity of water added is <p>1. 3 litres 2. 5 litres 3. 7 litres 4. none of these</p>																
93.	Which of the following is correct? <p>1. The sum of the three altitudes of a triangle is less than the sum of the three sides of the triangle. 2. The perimeter of a triangle is greater than the sum of its three medians. 3. Any two sides of a triangle are together greater than twice the median drawn to the third side. 4. All of these.</p>																

94.	If a clock strikes once at 1 O'clock, twice at 2 O'clock, thrice at 3 O'clock and so on and again once at 1 O'clock and so on, then how many times will the bell be struck in the course of 2 days?
	1. 156 2. 312 3. 78 4. 288
95.	If p, q, r are in A.P, then $p^3 + r^3 - 8q^3$ is equal to
	1. $4pqr$ 2. $-6pqr$ 3. $2pqr$ 4. $8pqr$
96.	Which of the following statements is true?
	1. A number is rational, if and only if its square is rational. 2. An integer n is odd, if and only if $n^2 + 2n$ is odd. 3. x is rational, if its decimal expansion is non-terminating and non-repeating. 4. $\sqrt{2}$ is rational.
97.	Four cows are tethered at four corners of a square plot of side 74 metres, having length of rope half of the side of a square. The area left un-grazed is
	1. 675.5 m^2 2. 1280 m^2 3. 1173.43 m^2 4. 850.5 m^2
98.	What is the value of $\cot(\alpha - \beta)$ given that $\cos\alpha = \frac{1}{2}$ and $\sec\beta = \frac{2}{\sqrt{3}}$?
	1. 1 2. $\frac{1}{\sqrt{3}}$ 3. $\sqrt{3}$ 4. Not defined
99.	The total number of integral solutions for x, y, z such that $xyz = 24$, is
	1. 30 2. 60 3. 90 4. 120
100.	In an equilateral triangle ABC, if $AD \perp BC$, then which of the following is true?
	1. $2AB^2 = 3AD^2$ 2. $4AB^2 = 3AD^2$ 3. $3AB^2 = 4AD^2$ 4. $3AB^2 = 2AD^2$
101.	5 years hence, the age of a man shall be 3 times the age of his son while 5 years earlier, the age of the man was 7 times the age of his son. Then the present age of the man is
	1. 45 years 2. 50 years 3. 47 years 4. 40 years
102.	A goods train runs at a speed of 72km/h and crosses a 250 m long platform in 26 seconds. What is the length of the goods train?
	1. 335 m 2. 245 m 3. 180 m 4. 270 m
103.	A, B and C invested ₹6300, ₹4200 and ₹10,500 respectively in a partnership business. The share of A in profit of ₹12,100 after one year is
	1. ₹3630 2. ₹3800 3. ₹4250 4. ₹4500
104.	Given that $5 \sin^2 A - 3 \cos^2 A = 1$, then what can be the value of $\angle A$?
	1. 0° 2. 30° 3. 45° 4. 60°
105.	Given ABCD is a trapezium whose diagonals AC and BD intersect at O such that $OA = (3x - 1)$ cm, $OB = (2x + 1)$ cm, $OC = (5x - 3)$ cm and $OD = (6x - 5)$ cm. Then, find the value of x .
	1. 2 2. 3 3. 2.5 4. 4
106.	A number is selected at random from the numbers given below: 15, 16, 12, 11, 10, 9, 8, 7, 17, 22, 28, 4, 3, 15, 12, 11, 19, 23, 25, 40, 45, 35, 32, 33 Find the probability that the selected number is greater than their average
	1. 0 2. 1 3. $\frac{1}{6}$ 4. $\frac{5}{12}$

107.	The area of the largest circle that can be drawn inside a rectangle with sides $7m \times 3.5m$ is 1. $\frac{77}{2} m^2$ 2. $77 m^2$ 3. $\frac{77}{8} m^2$ 4. $\frac{77}{4} m^2$
108.	If $\sin^2 A + \sin^4 A = 1$, then the value of $\tan^2 A - \tan^4 A$ is 1. -1 2. 1 3. 0 4. 2
109.	A bucket is raised from a well by means of a rope which is wound around a wheel of diameter 77cm. Given that the bucket ascends in 1 minute 28 seconds with a uniform speed of 1.1m/s, calculate the number of complete revolutions the wheel makes in raising the bucket. 1. 40 2. 39 3. 41 4.42
110.	The least number that is divisible by all the numbers from 1 to 10 (both inclusive) is 1. 10 2. 100 3. 504 4. 2520
SECTION-SOCIAL STUDIES	
111.	Which one of the following is a major caste group of Sri Lanka? 1. Christian & Tamil 2. Sinhali & Tamil 3. Buddhist & Hindu 4. Sinhali & Christian
112.	Why did nationalists in late- nineteenth century India focus on recording and preserving folklore? 1. To create new forms of art that reflect India. 2. To restore a sense of pride in traditional culture and national identity 3. To use folklore as a tool for economic development and modernization 4. To promote a uniform culture that could be adopted across all Indian regions.
113.	Why is per capita income considered better than total income for comparisons? 1. It helps in comparing living standards across countries 2. It focuses only on rural areas 3. It ignores economic growth 4. It includes only rich people's income
114.	Who among the following was the founder of the Swaraj Party? 1. Bal Gangadhar Tilak. 2. C.R. Das. 3. Lala Lajpat Rai. 4. Subhas Chandra Bose
115.	What was the significance of the Suez Canal for global trade? 1. It increased shipping times 2. It linked the Mediterranean Sea to the Red Sea 3. It connected the Atlantic & Pacific Oceans 4. It restricted trade between Europe and Asia
166.	Literacy rate is a measure of: 1. Human development 2. Employment 3. Poverty 4. Economic growth
117.	Which state has the largest area under permanent forests? 1. Bihar. 2. Tamil Nadu. 3. Odisha. 4. Madhya Pradesh
118.	The Public Distribution System (PDS) provides: 1. Education 2. Subsidized food 3. Employment 4. Loans
119.	The Union List includes subjects such as: 1. Education, forests, trade unions, marriages, adoption and succession. 2. Police, trade, commerce, agriculture and irrigation.

	3. Residuary subjects like computer software. 4. Defence, foreign affairs, banking, currency, communications.
120.	Which is the largest natural seaport in India? 1. Chennai 2. Mumbai 3. Kolkata 4. Vishakhapatnam
121.	Which article of the Indian Constitution deals with abolition of untouchability? 1. Article 14 2. Article 15 3. Article 17 4. Article 21
122.	Infant Mortality Rate (IMR) refers to deaths of children below: - 1. 1 year 2. 3 years 3. 5 years 4. 10 years
123.	Black soil is best suited for: 1. Rice 2. Wheat 3. Cotton 4. Tea
124.	Who is the ex-officio Chairman of Rajya Sabha? 1. President 2. Prime Minister 3. Speaker of the Lok Sabha 4. Vice-President
125.	Which amendment of the Indian Constitution lowered the voting age from 21 to 18 years? 1. 42 nd 2. 44 th 3. 61 st 4. 73 rd
126.	Which fuel is known as the 'environment-friendly fuel'? 1. Coal 2. Natural Gas 3. Petroleum 4. Hydrogen
127.	Who appoints the Chief Election Commissioner? 1. President 2. Prime Minister 3. Lok Sabha 4. Supreme Court
128.	The Human Development Index (HDI) was developed by: 1. Amartya Sen 2. UNDP 3. World Bank 4. IMF
129.	Which of the following is a renewable resource? 1. Coal 2. Petroleum 3. Solar Energy 4. Natural Gas
130.	Which state is the largest producer of tea? 1. Assam 2. West Bengal 3. Kerala 4. Tamil Nadu
131.	The 'Right to Education' is included in the Indian Constitution under: - 1. Article 14 2. Article 19 3. Article 21A 4. Article 32
132.	What is included in telecommunication? 1. Postal services 2. Only Internet communication 3. Mobile phones, radio, and email 4. Railway announcements
133.	The Panchayati Raj system was first adopted in: 1. Rajasthan 2. Gujarat 3. Maharashtra 4. Haryana
134.	Which state is the largest producer of sugarcane? 1. Bihar 2. Uttar Pradesh 3. Maharashtra 4. Punjab
135.	Which dam is built on the Sutlej River? 1. Bhakra Nangal 2. Hirakud 3. Sardar Sarovar 4. Tehri
136.	Who was proclaimed the Emperor of Germany in 1871? 1. Otto von Bismarck 2. Kaiser William I 3. Kaiser William II 4. Napoleon III

137.	MNREGA guarantees employment for: 1. 50 days 2. 100 days 3. 150 days 4. 200 days
138.	Which bank is called the Banker's Bank? 1. SBI 2. PNB 3. ICICI 4. RBI
139.	Which river is known as the "Sorrow of Bihar"? 1. Ganga 2. Narmada 3. Koshi 4. Yamuna.
140.	The main objective of Self-Help Groups (SHGs) is: 1. Providing loans to members 2. Sports training 3. Teaching 4. Building schools

END OF PAPER

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