



SCHOLASTIC APTITUDE TEST
(For Students of Class X)

Time: 90 Minutes

Max. Marks: 100

INSTRUCTIONS TO CANDIDATES

Read the following instructions carefully before you open the question booklet.

1. Answers are to be given on a separate answer sheet.
2. There are 100 questions in this test. All are compulsory. The question numbers 1 to 40 belong to Sciences, 41 to 60 pertain to Mathematics and 61 to 100 are on Social Science subjects.
3. Please follow the instructions given on the answer sheet for marking the answers.
4. Write your eight-digit Roll Number as allotted to you in the admission card very clearly on the test-booklet and darken the appropriate circles on the answer sheet as per instructions given.
5. Write down and darken Booklet Number in the appropriate circles on the answer sheet as per instructions given.
6. Since the time allotted for this question paper is very limited and all questions carry equal marks, you should make the best use of it by not spending too much time on any one question.
7. Rough work can be done anywhere in the booklet but not on the answer sheet/loose paper.
8. Every correct answer will be awarded one mark.
9. **THERE WILL BE A DEDUCTION OF 1/3 MARKS FOR EVERY WRONG ANSWER AND NO MARKS WILL BE DEDUCTED FOR UNATTEMPTED QUESTIONS.**
10. Please return only the answer sheet to the invigilator after the test.
11. English version of the question paper will be considered as final in case of any dispute arising out of variation in translation.

Please turn over the page and start answering immediately after you are asked to do so.

शैक्षिक अभिषमता परीक्षा

(कक्षा X के विद्यार्थियों के लिए)

समय: 90 मिनट

अधिकतम अंक: 100

परीक्षार्थियों के लिए अनुदेश

प्रश्न पुस्तिका खोलने से पहले, निम्न अनुदेशों को ध्यान से पढ़िए।

1. उत्तर एक अलग उत्तर-पत्रक में देने हैं।
2. इस परीक्षा में 100 प्रश्न हैं। सभी प्रश्न अनिवार्य हैं। प्रश्न 1 से 40 विज्ञान, 41 से 60 गणित और 61 से 100 सामाजिक विज्ञान के विषयों पर आधारित हैं।
3. कृपया उत्तर चिह्नित करने के लिए उत्तर-पत्रक पर दिए गए अनुदेशों का अनुपालन कीजिए।
4. कृपया अपना आठ-अंकीय रोल नंबर, जैसा कि आपके प्रवेश पत्र पर दिया गया है, अनुदेशानुसार प्रश्न-पुस्तिका और उत्तर-पत्रक पर बहुत स्पष्ट रूप से लिखिए और दिए गए उपयुक्त गोलों को काला कीजिए।
5. कृपया उत्तर-पत्रक में उपयुक्त खाने में निर्देशानुसार पुस्तिका संख्या लिखिए।
6. क्योंकि इस प्रश्न पत्र के लिए निर्धारित समय बहुत सीमित है, इसलिए इसका अधिकतम उपयोग कीजिए और किसी प्रश्न पर बहुत समय न लगाइए।
7. रफ कार्य पुस्तिका में कहीं भी किया जा सकता है, किन्तु उत्तर-पत्रक/अलग कागज पर नहीं।
8. प्रत्येक सही उत्तर का एक अंक प्रदान किया जाएगा।
9. प्रत्येक गलत उत्तर के लिए 1/3 अंक काटा जाएगा और किसी प्रश्न का उत्तर न देने पर उसके लिए कोई अंक नहीं काटा जाएगा।
10. कृपया परीक्षा के पश्चात केवल उत्तर-पत्रक ही निरीक्षक को वापस कीजिए।
11. अनुवादित विवरण में अंतर से उठे किसी भी विवाद की स्थिति में, प्रश्न पत्र के अंग्रेजी विवरण को निर्णायक माना जाएगा।

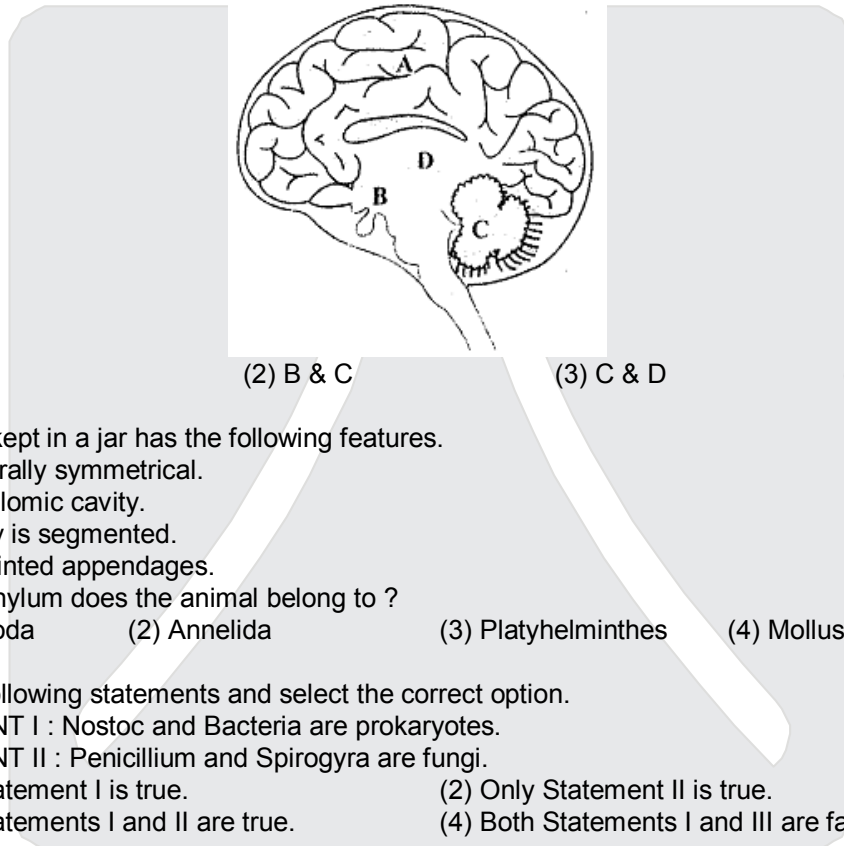
कृपया पृष्ठ पलटिए और अपना कार्य तुरन्त आरम्भ कीजिए

NCERT 2017

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SCHOLASTIC APTITUDE TEST (SAT) PAPER

1. Small cut pieces of soft stems are placed in growth medium with following plant hormones. Which combination of plant hormones will show slowest growth ?
 (1) Auxin + Cytokinin (2) Gibberellins + Auxin (3) Gibberellins + Cytokinin
 (4) Abscisic Acid + Auxin
2. Which one of the following demonstrates the characteristics of cardiac muscle cells ?
 (1) Involuntary and multinucleated (2) Unbranched and uninucleated
 (3) Cylindrical and uninucleated (4) Unbranched and involuntary
3. From the given figure identify the part of human brain controlling most of the involuntary actions :



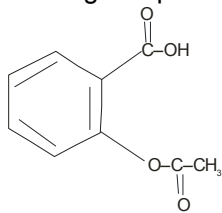
- (1) A & B (2) B & C (3) C & D (4) D & A

4. An animal kept in a jar has the following features.
 I. It is bilaterally symmetrical.
 II. It has coelomic cavity.
 III. The body is segmented.
 IV. It has jointed appendages.
 To which phylum does the animal belong to ?
 (1) Arthropoda (2) Annelida (3) Platyhelminthes (4) Mollusca
5. Read the following statements and select the correct option.
 STATEMENT I : Nostoc and Bacteria are prokaryotes.
 STATEMENT II : Penicillium and Spirogyra are fungi.
 (1) Only Statement I is true. (2) Only Statement II is true.
 (3) Both Statements I and II are true. (4) Both Statements I and III are false.
6. You find a herbaceous flowering plant growing in your school garden having leaves with parallel venation. Choose the Correct additional features the given plant would be possessing.
 I. It has no secondary vascular tissues. II. Its flower possesses three sepals.
 III. It possesses tap root. IV. Its embryo has 2 cotyledons.
 (1) I and II (2) I and III (3) II and IV (4) III and IV
7. Varieties of vegetables such as cabbage, broccoli and cauliflower have been produced from wild cabbage species. Such process of producing new varieties of living organisms is called
 (1) Natural selection (2) Artificial selection (3) Speciation (4) Genetic drift
8. Which of the following are pairs of analogous organs ?
 I. Forelimbs of horse—Wings of bat II. Wings of bat — Wings of butterfly
 III. Forelimbs of horse — Wings of butterfly IV. Wings of bird—Wings of bat
 (1) I and II (2) II and IV (3) III and IV (4) II and III

9. Which of the following organisms is used as a biopesticide ?
 (1) Azolla (2) Anabaena (3) Rhizobium (4) Trichoderma
10. A tall plant (TT) is crossed with a dwarf plant (tt). All F_1 plants showed tall phenotype. Which of the following correctly defines a test cross ?
 (1) $TT (F_1) \times Tt(P)$ (2) $Tt(F_1) \times Tt(P)$ (3) $tt(F_1) \times Tt(P)$ (4) $Tt(F_1) \times tt(P)$
11. Which one of the following pairs of causative agent and type of disease are correct ?
 (1) Leishmania – Sleeping sickness (2) Nematode – Elephantiasis
 (3) Trypanosoma – Kala azar (4) Staphylococcus – Acne
 (1) I & II (2) II & III (3) II & IV (4) III & IV
12. Pancreatic juice contains more than one enzyme. Which among the following combination is correct ?
 (1) pepsin and lipase (2) amylase and pepsin (3) pepsin and trypsin (4) trypsin and lipase
13. You discover a new species of a plant. You also discover that it produces motile sperms and dominant generation has diploid cells. It belongs to
 (1) Bryophyte (2) Angiosperm (3) Gymnosperm (4) Pteridophyte
14. Every 20 minutes, one bacterium divides into two. How many bacteria will be produced after two hours, if one starts 10 bacteria ?
 (1) $2^5 \times 10$ (2) $2^5 \times 10^5$ (3) $2^6 \times 10$ (4) $2^6 \times 10^6$
15. The metal (M) forms an oxide, M_2O_3 . The formula of its nitride will be
 (1) M_2N_3 (2) MN (3) M_2N (4) M_3N_2
16. A solution is a homogeneous mixture of two or more substances. Which of the following is a solution ?
 (1) Milk (2) Smoke (3) Brass (4) Face Cream
17. 1.80 g of glucose is dissolved in 36.00 g of water in a beaker. The total number of oxygen atoms in the solution is
 (1) 12.405×10^{23} (2) 12.405×10^{22} (3) 6.022×10^{23} (4) 6.022×10^{22}
18. ^{35}Cl and ^{37}Cl are the two isotopes of chlorine, in the ratio 3 : 1 respectively. If the isotope ratio is reversed the average atomic mass of chlorine will be :
 (1) 35.0 u (2) 35.5u (3) 36.0u (4) 36.5 u
19. The turmeric solution will turn red by an aqueous solution of
 (1) potassium acetate (2) copper sulphate
 (3) sodium sulphate (4) ferric chloride
20. A metal 'M' of moderate reactivity is present as its sulphide 'X'. On heating in air, 'X' converts into its oxide 'Y' and a gas evolves. On heating 'Y' and 'X' together, the metal 'M' is produced. 'X' and 'Y' respectively are -
 (1) 'X' = cuprous sulphide, 'Y' = cuprous oxide (2) 'X' = cupric sulphide, 'Y' = cupric oxide
 (3) 'X' = sodium sulphide, 'Y' = sodium oxide (4) 'X' = calcium sulphide, 'Y' = calcium oxide
21. Which one of the following statement is incorrect about graphite and diamond ?
 (1) Graphite is smooth and slippery
 (2) Diamond is good conductor of heat
 (3) Graphite is a good conductor of electricity
 (4) Physical and chemical properties of graphite and diamond are different



22. The functional groups present in the following compound are :



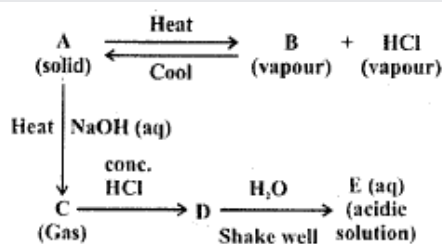
- (1) alcohol, ketone and ester
(2) ester and carboxylic acid
(3) carboxylic acid and ketone
(4) ester and alcohol
23. A part of the modern periodic table is presented below in which the alphabets represent the symbols of elements.

Table

Group →	1	2	14	15	16	17
Period↓						
2				M	Q	
3	A	J			R	
4	E		L			T
5	G					X

Consult the above part of the periodic table to predict which of the following is a covalent compound
(1) RQ_2 (2) AT (3) JQ (4) JX_2

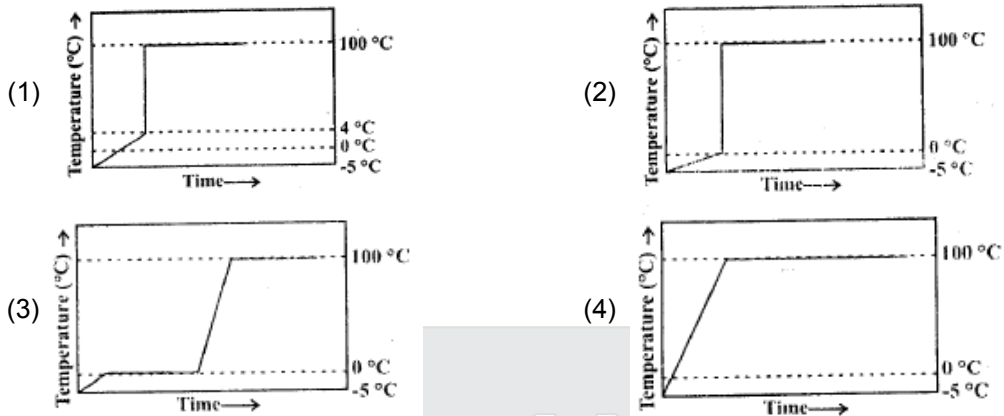
24. A compound 'X' reacts with a compound 'Y', to produce a colourless and odourless gas. The gas turns lime water milky. When 'X' reacts with methanol in the presence of concentrated H_2SO_4 , a sweet smelling substance is produced. The molecular formula of the compound 'X' is :
(1) C_2H_4O (2) $C_2H_4O_2$ (3) C_2H_6O (4) $C_2H_6O_2$
25. The schematic diagram is given below



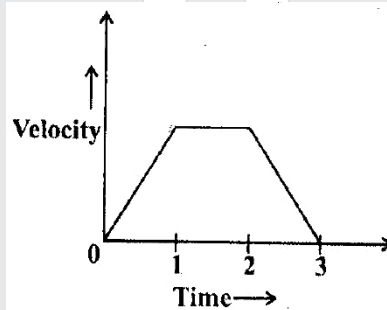
Which of the following is an incorrect statement ?

- (1) A and E are chemically same
(2) A and D are chemically same
(3) D and E are chemically same
(4) C and E are chemically same
26. Which of the following is a feasible reaction ?
(1) $Ba(s) + K_2SO_4(aq) \rightarrow BaSO_4(aq) + 2K(s)$
(2) $Zn(s) + 2AgNO_3(aq) \rightarrow Zn(NO_3)_2(aq) + 2Ag(s)$
(3) $Mg(s) + Na_2SO_4(aq) \rightarrow MgSO_4(aq) + 2Na(s)$
(4) $Cu(s) + MgSO_4(aq) \rightarrow CuSO_4(aq) + Mg(s)$

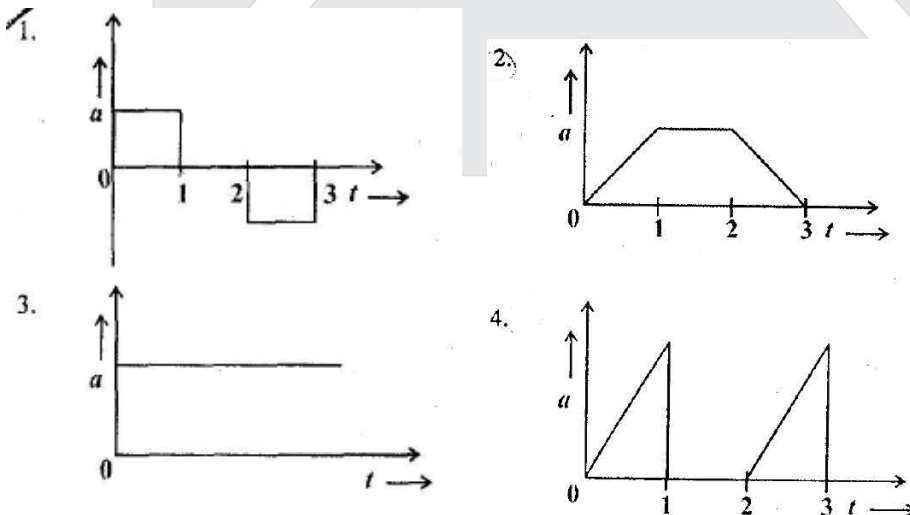
27. Some ice pieces kept at a temperature -5°C are heated gradually to 100°C in a beaker. The temperature of the contents are plotted against time. The correct plot is :



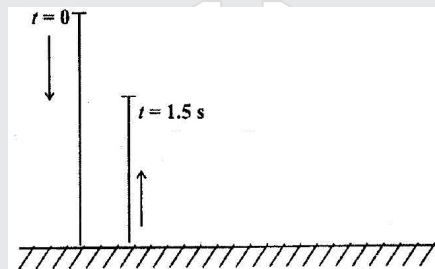
28. The velocity-time graph of an object moving along a straight line is shown below :



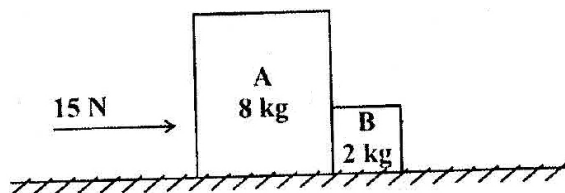
Which one of the following graphs represents the acceleration (a) - time (t) graph for the above motion?



29. To read a poster on a wall, a person with defective vision needs to stand at a distance of 0.4 m from the poster. A person with normal vision can read the poster from a distance of 2.0 m. Which one of the following lens may be used to correct the defective vision?
1. A concave lens of 0.5 D
 2. A concave lens of 1.0 D
 3. A concave lens of 2.0 D
 4. A convex lens of 2.0 D
30. A ball released from rest at time $t = 0$ hits the ground. It rebounds in elastically with a velocity 5 ms^{-1} and reaches the top at $t = 1.5 \text{ s}$, What is the net displacement of the ball from its initial position after 1.5 s ? ($g = 10 \text{ ms}^{-2}$)

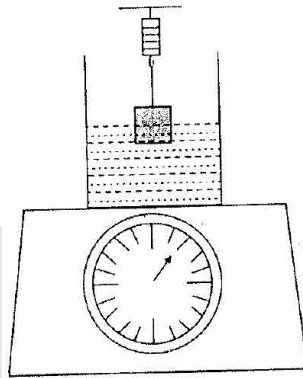


1. 1.25 m
 2. 3.75m
 3. 5.00m
 4. 6.25 m
31. A horizontal jet of water is made to hit a vertical wall with a negligible rebound. If the speed of water from the jet is ' v ' the diameter of the jet is ' d ' and the density of water is ' ρ ', then the force exerted on the wall by the jet of water is
1. $\frac{\pi}{4}d^2\rho v$
 2. $\frac{\pi}{4}d^2\rho v^2$
 3. $\frac{\pi}{8}d^2\rho v^2$
 4. $\frac{\pi}{2}d^2\rho v^2$
32. Two blocks A and B of masses 8 kg and 2 kg respectively, lie on a horizontal frictionless surface as shown in the figure. They are pushed by a horizontally applied force of 15 N. The force exerted by B on A is



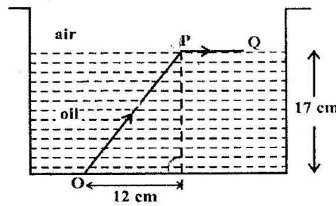
1. 1.5 N .
2. 3.0 N
3. 4.5 N
4. 6.0 N

33. A beaker half-filled with water is put on a platform balance which is then set to zero. A 800 g mass is immersed partially in water using a spring balance as shown in the figure. If the spring balance reads 300 g, what will be the reading on the platform balance?



1. 200 g 2. 300 g 3. 500 g 4. 800 g
34. An object falls a distance H in 50 s when dropped on the surface of the earth. How long would it take for the same object to fall through the same distance on the surface of a planet whose mass and radius are twice that of the earth? (Neglect air resistance.)
1. 35.4 s 2. 50.0 s 3. 70.7 s 4. 100.0s
35. A source produces sound waves under water. Waves travel through water and then into air. Which of the following statements about the frequency(f) and the wavelength (λ) is correct as sound passes from water to air ?
1. f remains unchanged but λ decreases. 2. f remains unchanged but λ increases.
3. λ remains unchanged but f decreases. 4. λ remains unchanged but f increases.
36. The diameter of a wire is reduced to one-fifth of its original value by stretching it. If its initial resistance is R , what would be its resistance after reduction of the diameter ?
1. $\frac{R}{625}$ 2. $\frac{R}{25}$ 3. 25 R 4. 625 R
37. An object of mass ' m ' moving along a straight line with a velocity ' u ' collides with a heavier mass ' M ' and gets embedded into it. If the compound system of mass ($m + M$) keeps moving in the same direction then which of the given options is true?
1. The kinetic energies before and after collision are same.
2. The kinetic energy after collision is $\frac{1}{2}(M+m)u^2$.
3. There will be a loss of kinetic energy equal to $\frac{1}{2} \frac{m^2 u^2}{(M+m)}$
4. There will be a loss of kinetic energy equal to $\frac{1}{2} \frac{Mm}{(M+m)} u^2$

38. A vessel is filled with oil as shown in the diagram. A ray of light from point O at the bottom of vessel is incident on the oil - air interface at point P and grazes the surface along PQ. The refractive index of the oil is close to –

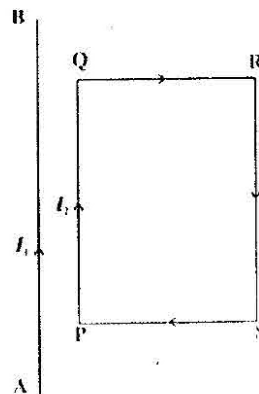


1. 1.41 2. 1.50 3. 1.63 4. 1.73

39. A charged particle placed in an electric field falls from rest through a distance d in time t . If the charge on the particle is doubled, the time of fall through the same distance will be

1. $2t$ 2. T 3. $\frac{t}{\sqrt{2}}$ 4. $\frac{t}{2}$

40. AB is a long wire carrying a current I_1 , and PQRS is a rectangular loop carrying current I_2 (as shown in the figure).



Which among the following statements are correct ?

- (a) Arm PQ will get attracted to wire AB, and the arm RS will get repelled from wire AB.
 (b) Arm PQ will get repelled from wire AB and arm RS attracted to wire AB.
 (c) Forces on the arms PQ and RS will be unequal and opposite.
 (d) Forces on the arms QR and SP will be Zero.

1. only (a) 2. (b) and (c) 3. (a) and (c) 4. (b) and (d)

41. The sum of all the possible remainders, which can be obtained when the cube of a natural number is divided by 9, is
 (1) 5 (2) 6 (3) 8 (4) 9
42. When a polynomial $p(x)$ is divided by $x - 1$, the remainder is 3. When $p(x)$ is divided by $x - 3$, the remainder is 5. If $r(x)$ is the remainder when $p(x)$ is divided by $(x - 1)(x - 3)$, then the value of $r(-2)$ is
 (1) -2 (2) -1 (3) 0 (4) 4
43. For what value of p , the following pair of linear equations in two variables will have infinitely many solutions?
 $px + 3y - (p - 3) = 0$
 $12x + py - p = 0$
 (1) 6 (2) -6 (3) 0 (4) 2
44. Two quadratic equation $x^2 - bx + 6 = 0$ and $x^2 - 6x + c = 0$ have a common root. If the remaining roots of the first and second equations are positive integers and are in the ratio 3 : 4 respectively, then the common root is
 (1) 1 (2) 2 (3) 3 (4) 4
45. First term of an arithmetic progression is 2. If the sum of its first five terms is equal to one-fourth of the sum of the next five terms, then the sum of its first 30 terms is
 (1) 2670 (2) 2610 (3) -2520 (4) -2550
46. A circle C is drawn inside a square S so that the four sides of S are tangents to C . An equilateral triangle T is drawn inside C with its vertices on C . If the area of S is k times the area of T , then the value of k is
 (1) $\frac{16}{3\sqrt{3}}$ (2) $\frac{16}{\sqrt{3}}$ (3) $\frac{32}{3\sqrt{3}}$ (4) $\frac{32}{\sqrt{3}}$
47. Let AP be a diameter of a circle of radius r and PT be the tangent to the circle at the point P such that the line AT intersects the circle at B . If $PT = 8$ units and $BT = 4$ units, then r is equal to
 (1) $4\sqrt{3}$ units (2) 4 units (3) $\frac{4}{\sqrt{3}}$ units (4) $2\sqrt{3}$ units.
48. If the quadratic equation $x^2 + bx + 72 = 0$ has two distinct integer roots, then the number of all possible values for b is
 (1) 12 (2) 9 (3) 15 (4) 18
49. If the area of a square inscribed in a semicircle is 2 cm^2 , then the area of the square inscribed in a full circle of the same radius is
 (1) 5 cm^2 (2) 10 cm^2 (3) $5\sqrt{2} \text{ cm}^2$ (4) 25 cm^2
50. If the discriminants of two quadratic equations are equal and the equations have a common root 1, then the other roots
 (1) are either equal or their sum is 2 (2) have to be always equal
 (3) are either equal or their sum is 1 (4) have their sum equal to 1.
51. Three circular wires are attached in series such that, if one wire is rotated, other two also get rotated. If the diameter of a wire is $\frac{4}{5}$ times that of immediate left wire and the left most wire rotates at the speed of 32 revolutions per minute, then the number of revolutions made by right most wire per minute will be
 (1) 40 (2) 49 (3) 50 (4) 60

52. Let ABC be an equilateral triangle. If the co-ordinates of A are (1, 2) and co-ordinate of B are (2, -1), then
 (1) C cannot lie in the first quadrant (2) C cannot lie in the second quadrant.
 (3) C is the origin (4) C cannot lie in the third quadrant
53. Shyam wants to make a solid brick shape structure from 400 wooden cubes of unit volume each. If the sides of the solid brick have the ratio 1 : 2 : 3, then the maximum number of cubes, which can be used will be
 (1) 400 (2) 288 (3) 300 (4) 384
54. Positive integers from 1 to 21 are arranged in 3 groups of 7 integers each, in some particular order. Then the highest possible mean of the medians of these 3 groups is
 (1) 16 (2) 12.5 (3) 11 (4) 14
55. On dividing 2272 as well as 875 by a 3-digit number N, we get the same remainder in each case. The sum of the digits of N is
 (1) 10 (2) 11 (3) 12 (4) 13
56. A line ℓ passing through the origin makes an angle θ with positive direction of x-axis such that $\sin\theta = \frac{3}{5}$. The co-ordinates of the point, which lies in the fourth quadrant at a unit distance from the origin and on perpendicular to ℓ , are
 (1) $\left(\frac{3}{5}, -\frac{4}{5}\right)$ (2) $\left(\frac{4}{5}, -\frac{3}{5}\right)$ (3) (3, -4) (4) (4, -3)
57. The value(s) of k for which $x^2 + 5kx + k^2 + 5$ is exactly divisible by $x + 2$ but not by $x + 3$ is (are)
 (1) 1 (2) 5 (3) 1, 9 (4) 9
58. If $\cos^4\theta + \sin^2\theta = m$, then
 (1) $1 \leq m \leq 2$ (2) $\frac{1}{2} \leq m \leq 1$ (3) $\frac{3}{4} \leq m \leq 1$ (4) $\frac{3}{4} \leq m \leq \frac{13}{16}$
59. Cost of 2 apples, 3 bananas and one coconut is Rs. 26. Also the cost of 3 apples, 2 bananas and two coconuts is Rs. 35. Then the cost of 12 apples, 13 bananas and 7 coconuts is
 (1) Rs. 172 (2) Rs. 148 (3) Rs. 143 (4) Rs. 126
60. ABC is a field in the form of an equilateral triangle. Two vertical poles of heights 45 m and 20 m are erected at A and B respectively. The angles of elevation of the tops of the two poles from C are complementary to each other. There is a point D on AB such that from it, the angles of elevation of the tops of the two poles are equal. Then AD is equal to
 (1) $17\frac{5}{12}$ m (2) $20\frac{10}{13}$ m (3) $20\frac{5}{13}$ m (4) $17\frac{10}{12}$ m.
61. Arrange the developments related to European history in a chronological sequence.
 I. Napoleon invaded Italy. II. Unification of Italy.
 III. Unification of Germany. IV. Vienna' Settlement.
 1. I, III, II and IV 2. I, II, IV and III 3. IIV, II and III 4. I, II, III and IV

62. Which of the following statements about Liberals in 19th century Europe are correct ?
 I. They favoured the Catholic Church
 II. They opposed dynastic rule with unlimited power.
 III. They were democrats.
 IV. They did not want any voting rights for women.
1. I, II and III 2. I, II and IV 3. II and IV 4. III and IV
63. Which of the following statements are correct?
 I. In the beginning Bombay was under the Portuguese control.
 II. Control of Bombay passed onto the French in the 17th century.
 III. The Marathas replaced the French in Bombay.
 IV. Bombay became the capital of the Presidency in early 19th century.
1. I, II and IV 2. I and IV 3. I, II and III 4. II, III and IV
64. Which of the following statements are correct?
 I. The Chinese introduced printing.
 II. The Buddhist missionaries introduced printing in Japan.
 III. The Chinese developed printing to facilitate their expanding trade.
 IV. Printing reached Europe through Italy.
1. I, II and III 2. I, II and IV 3. II, III and IV 4. I and IV
65. Direction (Questions 65 - 72) .
 Read the statements and select the correct answer from the options given below.
 1. Statement I is true, Statement II is false.
 2. Statement I is false, Statement II is true.
 3. Both Statements are true, and Statement II provides explanation to Statement I.
 4. Both Statements are true, but Statement II does not provide explanation of Statement I.
65. Statement I: During the years of the Great Depression the economic crisis was worse in Germany.
 Statement II: The President of the Weimar Republic had the power to impose emergency.
66. Statement I : The Forest Act of 1878 categorized some forests as 'reserved forests'.
 Statement II: They were considered the best forests for people's use.
67. Statement I: Shifting cultivation was widely prevalent in different parts of India in the 19th century.
 Statement II : More and more people took to shifting cultivation when forest laws were enacted.
68. Statement I: Cricket emerged as a colonial game.
 Statement II: Cricket was started in England.
69. Statement I: Mahatma Gandhi wished everyone had clothes to wear.
 Statement. II: He wanted everyone to wear the single loin cloth as he did.
70. Statement I: The Spanish conquest of America was not a conventional military
 Statement II: One of the most powerful weapon was the spread of smallpox
71. Statement I: The silk routes led to trade and cultural links between distant parts of the world.
 Statement II: Early Christian missionaries travelled to Asia through this route.
72. Statement I: The French used forced labour in Indo-China for building canals.
 Statement II: Vietnam became a major exporter of rice in the world.

73. "Match List I (Layers of Atmosphere) and List II (Characteristics) and select the correct answer using the code given below.

List I (Layers of Atmosphere)

- A. Ionosphere
- B. Stratosphere
- C. Exosphere
- D. Troposphere

List II

(Characteristics)

- I. Contains Ozone
- II. Reflects radio Waves
- III. Fall in Temperature
- IV. Extremely low air density

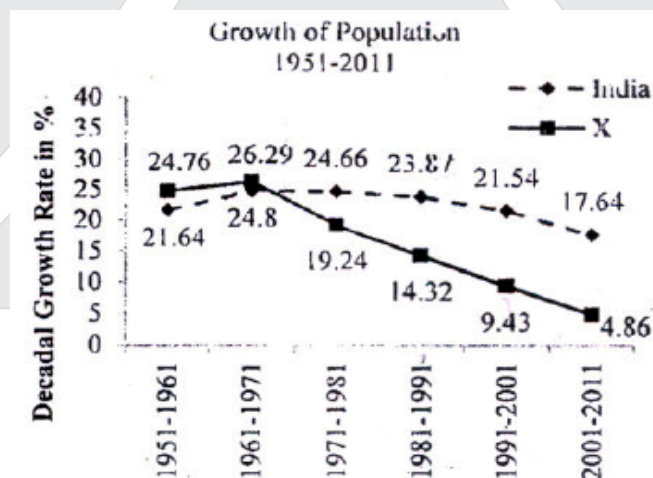
- 1.. A-II, B-III, C-IV, D-I 2. A-II, B-1, C-IV, D-III 3. A-II, B-III, C-I, D-IV 4. A-III, B-I,C-IV, D-II

74. Which of the following statements are correct? .

- I. Rann of Kachchh is formed by the recession of the sea
- II. Kuchaman, Sambhar and Didwana are salt water lakes
- III. The land to the east of. Aravallis is known as Bagar
- IV. The fertile flood plains formed by small streams in Rajasthan are known as Rohi

1. I, II and IV 2. I, III and IV 3. II, III and IV 4. I, II, III and IV

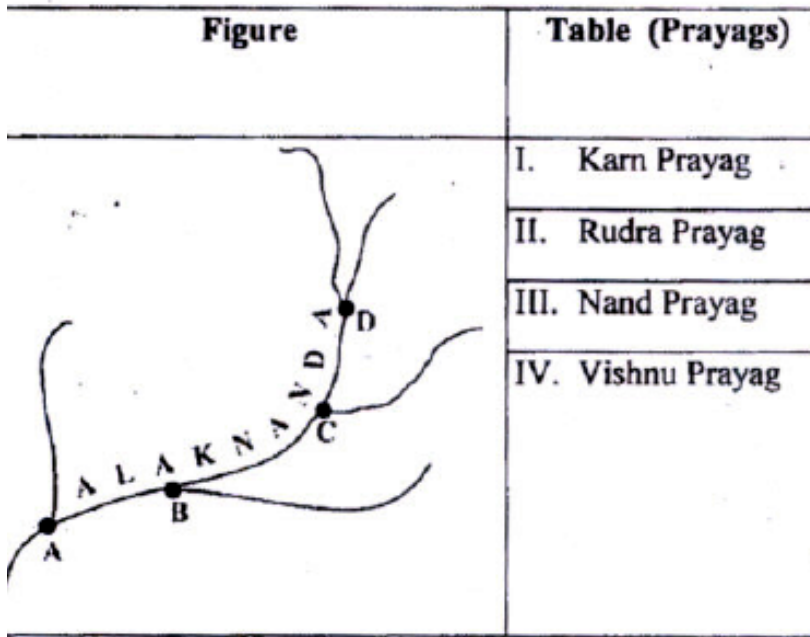
75. Observe the graph given below:



Identify the state with population growth rate marked by 'X' in the given graph.

1. Goa 2. Kerala 3. Sikkim 4. Nagaland

76. River Alaknanda forms confluences (Prayags) in Uttarakhand. Match the codes given in Figure with Table (Prayags) and select the correct answer using the code given below.



1. A-II, B-I, C-III, D-IV 2. A-II, B-III, C-I, D-IV 3. A-III, B-II, C-I, D-IV 4. A-III, B-I, C-II, D-IV
77. Match List I (Original Rock) with List II (Metamorphic Rock) and select the correct answer using the code given below:

List I (Original Rock)		List II (Metamorphic Rock)	
A.	Granite	I.	Diamond
B.	Coal	II.	Marble
C.	Limestone	III.	Slate
D.	Shale	IV.	Gneiss

1. A-III, B-IV, C-II, D-I 2. A-III, B-II, C-IV, D-I 3. A-IV, B-II, C-I, D-III 4. A-IV, B-I, C-II, D-III

78.



Which one of the following statement is NOT true about the shaded state indicated on the map?

1. Society predominantly follows right of female ultimogeniture
2. The state is an example of areas with karst topography
3. The state is a major producer of potatoes in India
4. Some parts of the state receive extremely high rainfall

79.

Match List I (Mineral Oil Refineris) with List II (States) and select the correct answer using the codes given below :

List I (Mineral Oil Refineris)		List II (States)	
A.	Numaligarh	I.	Punjab
B.	Bathinda	II.	Andhra Pradesh
C.	Tatipaka	III.	Madhya Pradesh
D.	Bina	IV.	Assam

1. A-IV, B-II, C-III, D-I 2. A-IV, B-I, C-II, D-III 3. A-II, B-I, C-IV, D-III 4. A-IV, B-III, C-II, D-I

80.

'Slash and Burn Agriculture' is known by specific name in different states of India. Match the shaded states marked in the given map with codes given in the Table (Different names of Slash and Burn Agriculture) and select the correct answer using the code given below.

Table (Different Names of Slash and Burn Agriculture)	
	I. Bringa
	II. Waltre
	III. Dahiya
	IV. Kuruwa

1. A-III, B-IV, C-II, D-I 2. A-III, B-II, C-IV, D-I 3. A-I, B-IV, C-II, D-III 4. A-I, B-II, C-IV, D-III

81. Match List I (Industries) with List II (Important Centers) and select the correct answer using the codes given below :

List I (Industries)		List II (Important Centers)	
A.	Cotton textile	I.	Ludhiana
B.	Hosiery	II.	Rishra
C.	Jute	III.	Coimbatore
D.	Silk textile	IV.	Mysuru

1. A-I, B-III, C-IV, D-II 2. A-IV, B-1, C-II, D-III 3. A-III, B-II, C-I, D-IV 4. A-III, B-I, C-II, D-IV

82. Which one of the following island is closest to the equator?
1. Minicoy 2. Car Nicobar 3. Little Nicobar 4. Great Nicobar

83. Which of the following characteristics are true about plantation agriculture?
I. Generally plantation agriculture is considered as an example of subsistence farming.
II. Generally single crop is grown on a large area in plantation agriculture.
III. It has an interface of agriculture and industry .
IV. It uses capital intensive inputs ..~
1. I and IV 2. III and IV 3. I, II and III 4. II, III and IV

84. Match List-1 (Vegetation zones) with List-II (Mean Annual Temperature Range) and select the correct answer the code given below

List I (Vegetation Zones)		List II (Mean Annual Temperature Range)	
A.	Alpine	I.	Above 24°C
B.	Temperate	II.	17°C to 24°C
C.	Tropical	III.	Below 7°C
D.	Sub-tropical	IV.	7°C to 17°C

1. A-III, B-1, C-II, D-IV 2. A-III, B-1, C-IV, D-II 3. A-III, B-IV, C-I, D-II 4. A-I, B-II, C-III, D-IV

85. 'In a democracy, the Will of the people is supreme.' Which of the following statement concerning democracy in India best reflects this?
1. The President appoints the Prime Minister who is the leader of the political party possessing a majority in the Lok Sabha.
2. An assembly of elected representatives exercises political authority on behalf of the people.
3. In case of a difference between the two Houses of Parliament, the final decision is taken in a joint session of the two houses
4. The permanent executive has more powers than the political executive.

86. Which of the following statements about the Panchayati Raj Institutions after the Constitutional Amendment in 1992 are false?
I. Seats are reserved for the Scheduled Castes, Scheduled Tribes, and Other Backward Classes in the elected bodies of the Panchayati Raj
II. Elections to the Panchayati Raj Institutions are supervised by the Election Commission of India.
III. Elections to the Panchayati Raj Institutions are held regularly after every five years.
IV. Half of the seats in all the States are reserved for women.
1. I and III 2. I and II 3. III and IV 4. II and IV

87. Match List I (political Systems) with List II (Nations) and select the answer using the codes given below.

List I (Political Systems)		List II (Nations)	
A.	Federal, Presidential, Republic	I.	India
B.	Federal, Parliamentary Republic	II.	United Kingdom
C.	Unitary, Parliamentary Monarchy	III.	Germany
D.	Presidential cum Parliamentary Republic	IV.	United States of America
		V.	France

1. A-IV, B-I, C-II, D-V 2. A-IV, B-I, C-II, D-III 3. A-V, B-IV, C-II, D-III 4. A-V, B-II, C-III, D-IV

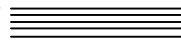
88. Which of the following statements about the federal system in India are true?
 I. The Constitution of India provides for a three-fold distribution of legislative powers between the Union and the State Governments.
 II. Both the Union and the State Governments can Legislate on residuary subjects.
 III. The Parliament cannot on its own change the power-sharing arrangement between the Union and the State Governments.
 IV. The High Courts have no role in resolving disputes about the division
1. I and III 2. II, III and IV 3. III and IV 4. I, II and IV
89. Which of the following group of States Union Territories have only one Lok Sabha constituency?
 1. Arunachal Pradesh, Sikkim, Lakshadweep
 2. Goa, Meghalaya, Andaman and Nicobar Islands .
 3. Chandigarh, Sikkim, Mizoram
 4. Manipur, Dadra and Nagar Haveli, Puducherry
90. Which of the following statements best reflects the 'socialist' feature of the Preamble to the Constitution of India?
 1. There are no unreasonable restrictions on how the citizens express their thoughts.
 2. The traditional *social* inequalities have to be abolished.
 3. Government should regulate the ownership of land and industry to reduce socio-economic inequalities.
 4. No one should treat a fellow citizen as inferior
91. Which of the following statements about the Indian judiciary is true?
 1. India has an integrated judiciary.
 2. The Judiciary in India is subordinate to the Executive.
 3. The Supreme Court is more powerful than Parliament.
 4. The Chief Justice of India is appointed by the Prime Minister
92. Which of the following Fundamental Rights includes the Right to Education?
 1. Right to Equality 2. Right to Freedom
 3. Cultural and Educational Rights 4. Right to Constitutional Remedies
93. Which of the following is NOT an indicator of economic development?
 1. Increased per capita income 2. Decreased infant mortality
 3. Increased life expectancy at birth 4. Decreased women participation in job market.

94. The poverty line in Dinanagar is set at Rs.100 per capita per day. Five Hundred people live in Dinanagar of whom 50 earn Rs 30 per capita per day and another 25 earn Rs 80 per capita per day each. Everybody else earn more than Rs 100 per day per capita. What is the minimum amount that the government of Dinanagar will have to spend to completely eradicate poverty?
 1. Rs 3000 2. Rs 3500 3. Rs 4000 4. Rs 4500
95. The local telephone company sells me a landline connection only if I purchase a handset from them as well. Which of the following rights does this practice violate under the Consumer Protection Act 1986?
 1. Right to represent 2. Right to information 3. Right to choose 4. Right to seek redressal

96. Match List-I (Type of Unemployment) with List-II (Characteristics) and select the correct answer using the codes given below

List-I (Type of Unemployment)		List-II (Characteristics)	
A.	Seasonal	I.	Occurs during boom or recession in the economy
B.	Frictional	II.	An absence of demand for a certain type of workers
C.	Disguised	III.	Occurs when moving from one job to another
D.	Structural	IV.	Actual contribution by the additional labour is nil
E.	Cyclical	V.	Job opportunities during certain months in the year

1. A-V, B-III, C-IV, D-II, E-I 2. A-IV B-V , C-III, D-I E-II
 3. A-I, B-II, C-III, D-IV, E-V 4. A-V, B-IV, C-III, D-II, E-I
97. Suppose Indian Farmers sell wheat at Rs 50 per kg and the international price of wheat is Rs 40 per kg. What is the minimum rate of import duty Government of India must impose on imported wheat so that it does not adversely affect Indian farmers in the domestic market?
 1. 10% 2. 20% 3. 25% 4. 30%
98. The wage rate of a worker in a country is Rs 300 per day. Which of these person(s) would you consider unemployed?
 A: Ramu is willing to work at Rs 300 a day, but cannot find work.
 B. Suresh is willing to work only at Rs 400 a day or more, and cannot find work.
 C. Shanti stays at home because she has young children to look after.
 1. Ramu 2. Suresh 3. Ramu and Suresh 4. Ramu and Shanti



99. Which of the following can be used as collateral in Indian banks to borrow money?
1. Bank Passbook 2. Credit Card 3. Own House 4. Passport
100. The total agricultural land in a village is 1200 hectares. This is distributed among 320 families who form four groups in the following pattern. It is assumed that the land is distributed equally within each group. Identify the group of small farmers.

Group	Number of Families	Total amount of land owned and operated by each group (in hectares)
A	100	300
B	180	300
C	30	300
D	10	300

1. A

2. B

3. C

4. D



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