Dhruva Foundation Classes
MEDICAL / IIT - JEE / FOUNDATION

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CLASS 9

SET-B

DISO

DHRUVA INTER SCHOOL OLYMPIAD 2025-26

Date : 30th November 2025

Total Questions : 100 | Time : 2 Hrs.

Guidelines for the Candidate

1. You will get additional ten minutes to fill up information about yourself on the OMR Sheet, before the start of the exam.
2. Write your **Name, School Name, Class and Roll Number** clearly on the **OMR Sheet** and do not forget to sign it. We will share your marks/result and other information related to DISO exams on your mobile number.
3. The Question Paper comprises five sections:

   Logical Reasoning (20 Questions), **English** (20 Questions), **Mathematics** (20 Questions), **Science** (20 Questions) and **Social Science** (20 Questions)
4. All questions are compulsory. There is no negative marking. Use of calculator, electronic gadgets is not permitted.
5. There is only ONE correct answer. Choose only ONE option for an answer.
6. To mark your choice of answers by darkening the circles on the OMR Sheet, **Blue** ball point pen only.
7. Rough work should be done in the blank space provided in the booklet.
8. Return the OMR Sheet to the invigilator at the end of the exam.
9. Please fill in your personal details in the space provided before attempting the paper.

Name:.....

DISO Olympiad Roll No. : ..... Contact No.....

Rough

Logical Reasoning

1. In the sequence given below, a term is missing. The missing term is written in the options that are present below. Find the missing term and choose it from the options below:

   2, 3, 4, 4, 6, 8, ?, 12, 16

   (A) 3 (B) 6

   (C) 8 (D) 12

2. Find out the wrong number in the following number series.

   16, 19, 21, 30, 46, 71, 107

   (A) 19 (B) 21

   (C) 30 (D) 46

3. In the following question, four pairs of words are given out of which words in four/ three pairs bear a certain common relationship. Choose the pair in which the words are differently related.

   (A) Reward : Punishment

   (B) Object : Permit

   (C) Sharp : Blunt

   (D) Cold : Cool

4. Choose the odd-one out:

   (A) 3642 (B) 4259

   (C) 7586 (D) 1745

5. In the following question, select the related letters from the given alternatives.

   ACG : ZXT : : HJN : ?

   (A) SQM (B) TRN

   (C) SQN (D) SOM

6. In a row of 31 men, A is 17th from left end and B is 19th from right end. C is sitting exactly in between A and B. Then, what is the rank of C from right end?

   (A) 17 (B) 18

   (C) 19 (D) 20

7. Sunita ranked 11th from the top and 27th from the bottom in a class. How may student are in the class?

   (A) 38 (B) 28

   (C) 40 (D) 37

8. Among M, T, R and P; M is older than only P. T is older than R. Who among them is the oldest?

   (A) T

   (B) R

   (C) T or R

   (D) Data inadequate

9. Arrange the following words as per order in the dictionary.

   1. Pick

   2. Pith

   3. Pile

   4. Perk

   5. Pour

   (A) 4, 1, 2, 3, 5

   (B) 4, 1, 3, 2, 5

   (C) 4, 3, 2, 1, 5

   (D) 5, 4, 3, 2, 1

10. If the letters of RUTHLESS are rearranged alphabetically then which letter would be the last letter?

    (A) U (B) T

    (C) E (C) H

11. If '-' stand for division, '+' for multiplication, '÷' for subtraction and '×' for addition, which one of the following equation is correct?

(A) 6 ÷ 20 × 12 + 7 – 1 = 70

(B) 6 + 12 – 12 ÷ 7 × 1 = 62

(C) 6 – 20 ÷ 12 × 7 + 1 = 57

(D) 6 + 20 – 12 ÷ 7 + 1 = 38

12. A is East of B and West of C, D is South-West of C, and B is South-East of E. When seen from West to East, which of the following sequences are possible?

I: EBDAC
II: DEBAC

III: EBADC
IV: EDBAC

(A) I and II (B) I, III and IV

(C) I, II and III (D) All I, II, III and IV

13. Study the following information carefully and answer the given question:

(I) There are 6 check- posts A, B, C, D,, E and F.

(II) Check – post F is 25 km to the north of D which is 35 km to the north- east of B.

(III) Check – post A is 15 km west of E and 35 km to the south – west of 'C'.

(IV) B, A and E are in straight line.

(V) The check posts B and E are 70 km apart from each other.

(VI) E is the east of B.

Which post is the nearest to the 35 km north – east of E?

(A) A (B) B

(C) C (D) D

14. Pointing to a photograph. Bajpai said, "He is the son of the only daughter of the father of my brother." How Bajpai is related to the man in the photograph?

(A) Maternal Uncle (B) Brother

(C) Nephew (D) Son

15. P + Q means P is the father of Q; P – Q means P is the wife of Q; P × Q means P is the brother of Q. Which of the following means A is the maternal uncle of D?

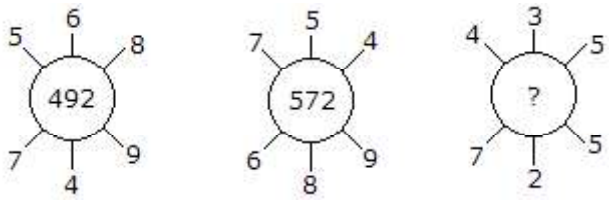
(A) A × B –C + D (B) D × C – B × A

(C) A × C + B - D (D) A – C × B + D

16. In a group of cows and hens, the number of legs are 14 more than twice the number of heads. The number of cows is

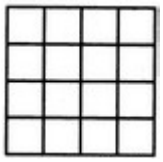
(A) 5 (B) 10 (C) 7 (D) 12

17. Which one will replace the question mark ?



(A) 115 (B) 130 (C) 135 (D) 140

18. Count the number of squares in the given figure.



(A) 32 (B) 30

(C) 29 (D) 28

19. In certain code 'TIGER' is written as 'QDFHS'. How is 'FISH' written in that code?

(A) GERH (B) GRHE (C) GREH (D) GHRE

20. In some code, letters P, Q, R, S, T represent numbers 4, 5, 10, 12, 15. It is not known which letter represents which number. If Q-S=2S and T=R+S+3, then what is the value of P+R-T?

(A) 1 (B) 2 (C) 3

(D) Cannot be determined due to insufficient data

Read the following passage and answer the questions that follow:

Amidst a period of academic rigor, the researcher's careful investigations uncovered an overlooked aspect of early civilizations. His studies, though scholarly, were often seen as abstruse by general readers. Initially indifferent, the authorities later acknowledged the beneficial effects of his findings on cultural conservation. Despite encountering difficulties in funding and public recognition, he remained steadfast in presenting his ideas. His lecture, marked by transparent explanations, made the challenging topic comprehensible. Skeptics of his work had to recognize the significant contribution he offered to historical insight.

21. Choose the correct code that gives the similar meaning to 'steadfast':

i. uncertain ii. firm

iii. wavering iv. resolute

(A) i, ii (B) ii, iii

(C) iii, iv (D) ii, iv

22. Find the correct code that has antonyms of 'transparent':

i. opaque ii. evident

iii. cloudy iv. luminous

(A) i, ii, (B) i, iii

(C) i, iv (D) iii, iv

23. Choose the correct code that contains synonyms of 'comprehensible':

i. confusing ii. coherent

iii. understandable iv. brief

(A) ii, iv (B) ii, iii

(C) iii, iv (D) i, iv

Choose the correct option to fill in the blanks :

24. _ people think that happiness depends on money, but _ know it comes from within.

(A) Any / those (B) Many / few

(C) Some / little (D) Several / much

25. ___ of these options seems right, but _ one will give you _ better result.

(A) None / either / the

(B) Neither / that / some

(C) Both / each / an

(D) All / another / the

26. The teacher insisted _ discipline and warned the students _ talking during class.

(A) for / from (B) on / against

(C) at / of (D) in / about

27. The thief escaped _ the crowd, ran _ the street, and disappeared _ the darkness.

(A) among / into / through

(B) through / across / into

(C) across / along / in

(D) from / down / into

28. He tried to _ the noise, but couldn't _ the distraction.

(A) put out / come over

(B) block out / get over

(C) keep on / take off

(D) hold on / break in

29. The manager decided to _ the meeting, but later _ it _ due to an emergency.

(A) call off / put / up

(B) set up / called / off

(C) put off / took / up

(D) hold on / give / out

30. If they _ earlier, they _ the bus and not _ a taxi.

(A) leave / will catch / needed

(B) left / would catch / need

(C) had left / would have caught / needed

(D) have left / caught / had needed

31. She _ to the doctor earlier; now her condition _ worse and she _ be hospitalized.

(A) goes / may get / may

(B) should have gone / has become / might

(C) had gone / could become / will

(D) should have gone / has become / must

32. When I _ him tomorrow, I _ him that he _ attend the meeting on time.

(A) meet / will tell / must

(B) will meet / tell / will

(C) will meet / tell / should

(D) meet / told / must

33. You _ submit your assignment on time, otherwise the teacher _ deduct marks.

(A) could / can (B) should / must

(C) must / will (D) might / would

34. The number of students in the class _ increasing steadily, although the teachers _ making extra efforts and the principal _ happy with the result.

(A) is / was / is (B) are / is / was

(C) is / are / is (D) is / is / has been

35. Some of the students _ absent today, even though each of them _ asked to be present yesterday.

(A) is / are (B) are / is

(C) are / were (D) are / was

Choose the option with correct transformation

36. It is necessary for you to submit the assignment today.

(A) You might submit the assignment today.

(B) You should submit the assignment today.

(C) You could submit the assignment today.

(D) You must submit the assignment today.

37. The homework must be completed by the students before the class.

(A) The students must be completed the homework before the class.

(B) The students should complete the homework before the class.

(C) The students must complete the homework before the class.

(D) The students could have completed the homework before the class.

38. Someone is repairing the car in the garage.

(A) The car is repaired by someone in the garage.

(B) The car is being repaired in the garage.

(C) The car is being repaired by someone in the garage.

(D) The car has been repaired by someone in the garage.

39. Direct: "Has she been working on this project since morning," she said.

(A) She said that she had been working on that project since morning.

(B) She asked if she has been working on that project since morning.

(C) She asked if she was working on that project since morning.

(D) She asked if she had been working on that project since morning.

40. Indirect: She said that she had been reading the book for two hours.

(A) She said, "I read the book for two hours."

(B) She said, "I have been reading the book for two hours."

(C) She said, "I had read the book for two hours."

(D) She said, "I was reading the book for two hours."

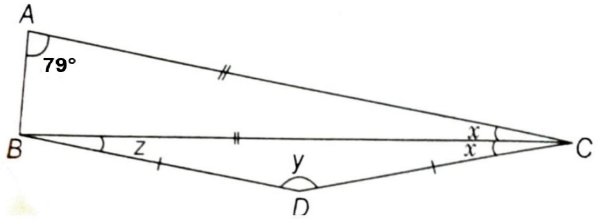
41. The volume of the largest cone which can be cut from a cube of edge 'a' is

(A) $\frac{\pi a^2}{12}$ (B) $\frac{\pi a^2}{3}$ (C) πa^3 (D) $\frac{\pi a^3}{12}$

42. Simplify : $\sqrt[5]{x^4\sqrt[4]{x^3\sqrt[3]{x^2\sqrt{x}}}}$

(A) $x^{23/24}$ (B) $x^{23/6}$ (C) $x^{5/6}$ (D) $x^{119/120}$

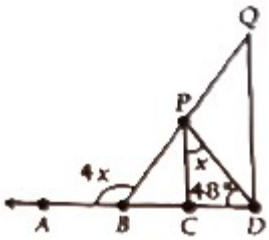
43. In the given figure, $\angle BAC = 79°$, CA = CB and BD = CD. Find the measures of $\angle x, \angle y$ and $\angle z$.



(A) 26°, 132°, 26° (B) 48°, 96°, 48°

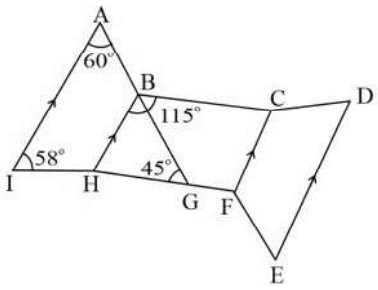
(C) 132°, 48°, 26° (D) None of these

44. In the given figure, ABCD and BPQ are straight lines. If BP = BC and DQ is parallel to CP. Find $\angle BDQ$.



(A) 48° (B) 45° (C) 90° (D) 96°

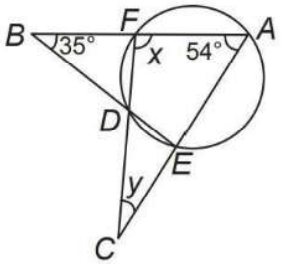
45. Study the figure shown here (not drawn to scale), If ABG is a straight line, then find $\angle ABH$ and reflex $\angle ABC$ respectively.



(A) 110°, 220° (B) 120°, 225°

(C) 120°, 235° (D) 110°, 215°

46. In the given figure, AEDF is a cyclic quadrilateral. The values of x and y respectively are



(A) 79°, 47° (B) 89°, 37°

(C) 89°, 47° (D) 79°, 37°

47. Factorise: $p^3(q-r)^3 + q^3(r-p)^3 + r^3(p-q)^3$

(A) $2pq(p+q)(q+r)(r-p)$

(B) $3pqr(p-q)(r-q)(r-p)$

(C) $2pqr(p-q)(q-r)(p-r)$

(D) $3pqr(p-q)(q-r)(r-p)$

48. The value of $\sqrt{6+2\sqrt{3}+2\sqrt{2}+2\sqrt{6}} - \frac{1}{\sqrt{5-2\sqrt{6}}}$ is

(A) 2 (B) -1

(C) $\sqrt{3}+\sqrt{2}$ (D) 1

49. Following are the steps involved in finding the value of $a^4 + \frac{1}{a^4}$, when $a + \frac{1}{a} = 1$. Arrange them is sequential order from the first to the last.

(A) $a^2 + \frac{1}{a^2} + 2 = 1 \Rightarrow a^2 + \frac{1}{a^2} = -1$

(B) $(a^2)^2 + \left(\frac{1}{a^2}\right)^2 + 2 = 1$ (C) $\left(a + \frac{1}{a}\right)^2 = 1^2$

(D) $\left(a^2 + \frac{1}{a^2}\right)^2 = (-1)^2$ (E) $a^4 + \frac{1}{a^4} = -1$

(A) CADBE (B) CDBAE

(C) CBADE (D) CEDAB

50. The value of x, is $5^{2x-1} = 25^{x-1} + 100$ is _____

(A) 8 (B) 5 (C) 2 (D) 0

51. Study the given statements carefully.

Statement -I:

$$\frac{(a^2-b^2)^3 + (b^2-c^2)^3 + (c^2-a^2)^3}{(a+b)^3 + (b+c)^3 + (c+a)^3}$$

$=(a+b)(b+c)(c+a)$

Statement -II: $a^2+b^2+c^2-ab-bc-ca$

$=\frac{1}{2}\left[(a-b)^2+(b-c)^2+(c-a)^2\right]$

Which of the following options holds?

(A) Both Statement -I and statement -II are true.

(B) Statement -I is true but Statement -II is false.

(C) Statement -I is false but Statement -II is true.

(D) Both Statement -I and statement -II are false.

52. Which one of the following is correct?

(A) $\left\{(\sqrt[3]{7}+\sqrt[7]{3})(\sqrt[3]{7}+\sqrt[7]{3}-2)\right\}-24$

$=(\sqrt[3]{7}+\sqrt[7]{3}+4)(\sqrt[3]{7}+\sqrt[7]{3}-6)$

(B) $\left\{(\sqrt[3]{7}+\sqrt[7]{3})(\sqrt[3]{7}+\sqrt[7]{3}+2)\right\}+24$

$=(\sqrt[3]{7}+\sqrt[7]{3}+4)(\sqrt[3]{7}+\sqrt[7]{3}+6)$

(C) $\left\{(\sqrt[3]{7}+\sqrt[7]{3})(\sqrt[3]{7}+\sqrt[7]{3}+2)\right\}-24$

$=(\sqrt[3]{7}+\sqrt[7]{3}-4)(\sqrt[3]{7}+\sqrt[7]{3}-6)$

(D) $\left\{(\sqrt[3]{7}+\sqrt[7]{3})(\sqrt[3]{7}+\sqrt[7]{3}-2)\right\}+24$

$=(\sqrt[3]{7}+\sqrt[7]{3}-4)(\sqrt[3]{7}+\sqrt[7]{3}+6)$

53. If the radius of shpere is increased by 4%, then what percent the surface area of the sphere increased?

(A) 8.16% (B) 8%

(C) 6% (D) 4%

54. Plot the point $P(-6,3)$ on a graph paper. Draw $PL\perp x-$ axis and $PM\perp y-$ axis. The coordinates of points L and M respectively are

(A) $(0,-6),(3,0)$ (B) $(-6,0),(0,3)$

(C) $(0,-6),(0,3)$ (D) $(-6,0),(3,0)$

55. If h, C, V are respectively the height, the curved surface and the volume of a cone, then $3\pi Vh^3-C^2h^2+9V^2=$

(A) C^3 (B) 1

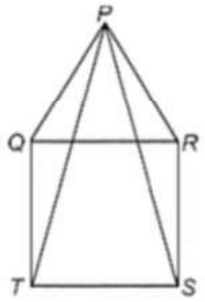
(C) $3V$ (D) 0

56. A aprt of monthly expanses of a family on milk is fixed which is Rs 700 and remaining varies with quantity of milk taken extra at the rate of Rs 25 per litre. Taking quantity of milk required extra as x litres and total expenditure on milk as Rs y, write a linear equation from the above information.

(A) $-25x+y=700$ (B) $20x+y=500$

(C) $20x+10y=300$ (D) $x+25y=900$

57. In the given figure, PQR is an equilateral triangle and QRST is a square. Then $\angle PSR=$ _____.



(A) 30° (B) 15°

(C) 90° (D) 60°

58. If $x=\left(\left(\frac{1}{2}\right)^{-1}\times(-4)^{-1}\right)^{-1}$ and $y=\left(\frac{1}{4}\right)^{-1}$, then find the value of x^y+y^x.

(A) $\frac{195}{8}$ (B) $\frac{257}{16}$

(C) $\frac{-257}{16}$ (D) 0

59. Find the value of $\frac{(x^{a+b})^2(x^{b+c})^2(x^{c+a})^2}{(x^a x^b x^c)^4}$.

(A) 1 (B) 4

(C) -1 (D) 2

60. 40% of the employees of a certain company are men and 75% of the men earn more than Rs 25000 per year. If 45% of the company's employees earn more than Rs 25000 per year, then what fraction of the women employed by the company do not earn more than Rs 25000 per year?

(A) 2/11 (B) 1/4

(C) 1/3 (D) 3/4

61. A ball released from the top of a tower of height M meters takes T seconds to reach the ground. What is the position of the ball in T/3 seconds?

(A) M/9 metres from the ground

(B) 7M/9 metres from the ground

(C) 8M/9 metres from the ground

(D) 17M/9 metres from the ground

62. Consider the following statements and choose the correct option:

Statement A: An electron in the inner orbit is more tightly bound to the nucleus.

Statement B: The greater the absolute value of the energy of an electron the more tightly the electron is bound to the nucleus.

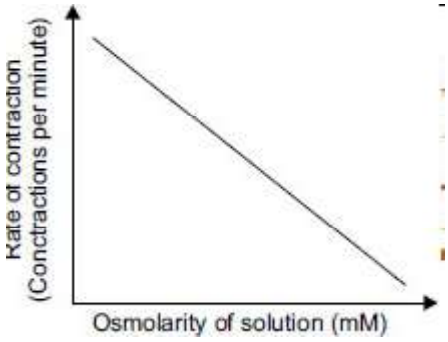
(A) Both A and B are true and B is not the appropriate reason for A.

(B) Both A and R are individually correct and B is the correct reason for A.

(C) A is correct but B is not correct.

(D) Both A and B are not correct.

63. A unicellular protist *X*, which has contractile vacuole to remove excess intracellular water, was placed in salt solution of increasing osmolarity. The given graph shows the rate of contraction of vacuole to pump out excess water against osmolarity of solution. Select the option that gives the correct explanation of the data.



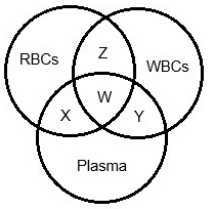
(A) In an isotonic solution there is no diffusion of water in or out of the *X*, so the contraction rate is zero.

(B) At higher osmolarity, more salt diffuses into *X*, therefore lower rates of contractions are required.

(C) The rate of contraction increases as osmolarity decreases because amount of water entering *X* by osmosis increases.

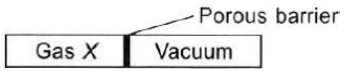
(D) The contractile vacuole is less efficient in solution of high osmolarity because of reduced respiration and less production of ATP.

64. Refer to the given Venn diagram. Which variables refer to blood and lymph respectively?



(A) W, X (B) Y, Z (C) W, Y (D) X, Z

65. The given apparatus is used to study the diffusion of a number of gases at the same temperature and pressure.



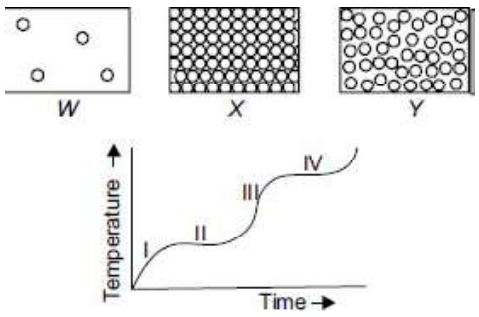
Which of the following pairs of gases would diffuse into the vacuum at the same speed?

[Given: Atomic mass of H = 1 u, C = 12 u, N = 14 u, S = 32 u, O= 16 u]

(A) NH_2 and H_2 (B) CO and SO_2

(C) CO and N_2 (D) NH_2 and N_2

66. Diagrams W, X and Y show how the particles of a substance are packed at different temperatures.



The given graph shows the temperature changes which occur on warming the substance. In which region of the graph would all the particles be packed as in Y?

(A) I (B) II (C) III (D) IV

67. Two substances, P and Q react to form a third substance, P_2Q according to the following reaction :

$2P + Q \rightarrow P_2Q$

Which of the following statements concerning this reaction are correct?

I. The product P_2Q does not show the properties of substances P and Q.

II. The product does not have a fixed composition.

III. The product has fixed melting and boiling points.

IV. The product can be easily separated into its constituents by physical methods.

V. The product so formed can be classified as a compound.

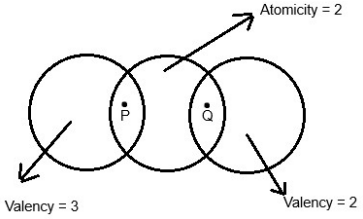
(A) III and V only

(B) II and IV only

(C) I, III and V only

(D) I, II and IV only

68. Refer to the given Venn diagram.



Identify P and Q.

	P	**Q**
(A)	Oxygen	Sulphur
(B)	Nitrogen	Oxygen
(C)	Aluminium	Argon
(D)	Phosphorus	Chlorine

69. Q_1, Q_2 and Q_3 are three balloons ascending with velocities $2v$, $4v$ and $6v$, respectively. If an object *X* of some mass *m* is dropped from each of them when they are at same height, then which one of the following statements is correct?

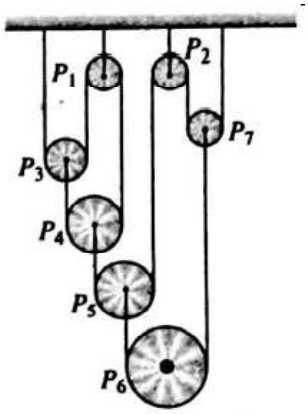
(A) X from balloon Q_3 reaches the ground first.

(B) X from balloon Q_1 reaches the ground first.

(C) X from balloon Q_2 reaches the ground first.

(D) X from all the three balloons reaches ground simultaneously.

70. In the given figure, seven pulleys are connected with the help of three light strings. In the system P_3, P_4 and P_5 are light pulleys while P_6 and P_7 have masses m each.



Which of the following statements are correct?

(i) Tension in the string connecting P_1, P_3 and P_5 is zero.

(ii) Tension in the string connecting P_1, P_3 and P_5 is $\frac{mg}{3}$.

(iii) Tension in all the three strings are same.

(iv) Acceleration of P_6 is g downwards and that of P_7 is g upwards.

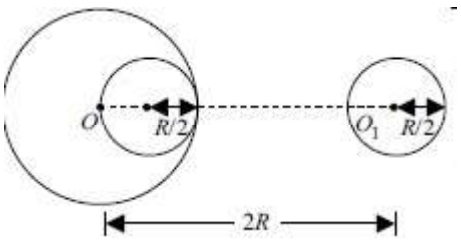
(A) (ii), (iii) and (iv) only

(B) (ii) and (iii) only

(C) (i) and (iii) only

(D) (i) and (iv) only

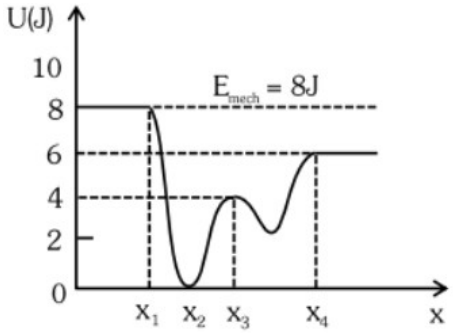
71. A cavity of radius R/2 is created in a sphere of radius R and mass M at the periphery which is placed at a distance 2R from the centre of another sphere as shown in the given figure. The force between the two spheres is



(A) $\frac{GM^2}{225R^2}$ (B) $\frac{2GM^2}{243R^2}$

(C) $\frac{7GM^2}{288R^2}$ (D) $\frac{4GM^2}{243R^2}$

72. The plot of a potential energy function U(x) for a system in which a particle is in one dimensional motion, while a conservative force F(x) acts on it is shown here. Assume that $E_{mech} = 8\,J$, then select the correct option which identify them as true (T) and false (F) ones.



[where K.E. = kinetic energy]

(i) at $x = x_2$, K.E. is greatest and the particle is moving at the fastest speed.

(ii) at $x < x_1$, K.E. is smallest and the particle is moving at the slowest speed.

(iii) at $x = x_3$, K.E. = 4J

(iv) at $c > x_4$, K.E. is constant throughout the region.

	(i)	(ii)	(iii)	(iv)
(A)	F	F	T	T
(B)	T	T	T	F
(C)	T	F	F	T
(D)	T	F	T	T

73. A curved surface PQRS is shown in the figure. The portion QRS is free of friction. There are three spherical balls of identical radii and masses. Balls are released from rest one by one from P which is at a slightly greater height than R.



With the surface PQ, ball 1 has large enough friction to cause rolling down without slipping, ball 2 has a small friction and ball 3 has a negligible friction. Which of the given statements are correct?

(i) Ball 1 and ball 3 can cross the point R.

(ii) Only ball 2 can cross the point R.

(iii) Only ball 3 can cross the point R.

(iv) Total mechanical energy is conserved for ball 1 and ball 3 but not for ball 2.

(A) (i) and (iv) only

(B) (iii) and (iv) only

(C) (i), (iii) and (iv) only

(D) (i), (ii), (iii) and (iv)

74. Select the option showing the correct sequential steps to produce a new genetic variety of a crop.

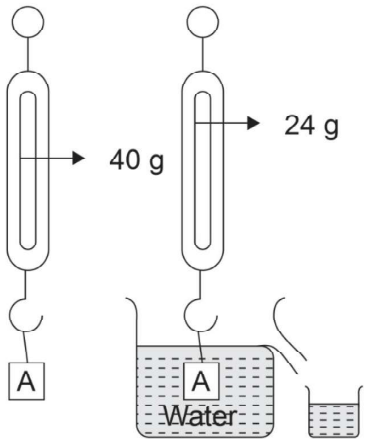
(A) Selection of parents → Hybridisation of selected parents → Germplasm collection → Selection of superior recombinants → Testing and release of new varieties

(B) Germplasm collection → Selection of parents → Hybridisation of selected parents → Selection of superior recombinants → Testing and release of new varieties

(C) Selection of superior recombinants → Germplasm collection → Hybridisation of selected parents → Selection of parents → Testing and release of new varieties

(D) Germplasm collection → Selection of parents → Hybridisation of selected parents → Testing and release of new varieties → Selection of superior recombinants

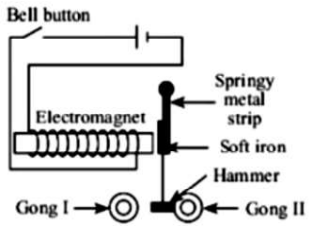
75. Analyse the figure and find out relative density of the solid.



(A) 1.66 (B) 2.5

(C) 1.33 (D) 0.6

76. The schematic diagram of an electric bell is as shown in the given figure.



What happens when the bell button is pressed (switched on) and released (switched off)?

Switch on	**Switch off**
(A) One ting is heard	Silence
(B) One ting is heard	One ting is heard
(C) Continuous ringing	Silence
(D) Silence	Continuous ringing

77. Choose the correct option and complete the following sentence:

The acceleration due to the Earth's gravity decreases, if _____.

I. we go up from the surface of the Earth

II. we go from the equator towards the pole

III. the rotation speed of the Earth is increased

IV. we go down from the surface of the Earth towards its centre

(A) I, II and III (B) I, III and IV

(C) I, II and IV (D) I, II and III and IV

78. Which of the following options is correct regarding the given statement?

A rubber ball and a lead ball having the same mass, strike normally on a smooth vertical wall with the same velocity. The lead balls fall down after striking the wall but the rubber ball bounces back.

(A) The momentum of the rubber ball is greater than that of the lead ball.

(B) The momentum of the lead ball is greater than that of the rubber ball.

(C) The rubber ball suffers a greater change in momentum as compared to the lead ball.

(D) Both the balls suffer an equal change in momentum.

79. Fill in the blanks:

Suppose gravity of the Earth suddenly becomes zero, then what will happen to the motion of the Moon (neglecting the effect of other celestial body) _____.

(A) Moon will stop moving

(B) Moon will start moving with non-uniform acceleration on the same path

(C) Moon will begin to move in a straight line in the direction in which it was moving at that instant

(D) None of the above

80. Fill in the blank:

During a planned manoeuvre in a space flight, a free-floating astronaut A pushes another free-floating astronaut B, the mass of A being greater than that of B. Then, the magnitude of the force exerted by astronaut A on astronaut B is _____.

(A) equal to zero

(B) equal to the force exerted by astronaut B on astronaut A

(C) greater than the force exerted by astronaut B on astronaut A

(D) less than the force exerted by astronaut B on astronaut A

81. Which document abolished slavery in France?

(A) The Napoleonic Code

(B) The Declaration of Rights of Man and Citizen

(C) The Constitution of 1791

(D) The Edict of Nantes

82. Which Indian cough syrup was recently flagged as 'substandard' by the WHO?

(A) Coldrex (B) Coldrif

(C) Coughnil (D) Coughsafe

83. The term "Proletrait" Refers to

(A) The middle class intellectual

(B) The Rulling Monarch

(C)The working class

(D) The land owning Aristocracy

84. The "Old Regime" refers to the social and political system in France before 1789. What was a defining characteristic of this system?

(A) A society based on legal equality and meritocracy for all citizens

(B) A rigid social structure with hereditary privileges for the clergy and nobility

(C) A federal system where states had significant autonomy from the central government

(D) A democratic republic where citizens elected representatives to the government

85. Why do farmers need to be careful while using modern techniques of farming?

(A) Because they are always expensive and reduce production

(B) Because excessive use of chemical fertilizers and pesticides can harm the soil and environment

(C) Because modern techniques do not increase crop yield

(D) Because traditional methods are faster and easier

86. Match the following:

	Column A	**Column B**
(i)	Virtuous cycle	(a) Poor health and lack of education
(ii)	Vicious cycle	(b) Parents ensure nutrition and schooling
(iii)	Sakal	(c) Acquired a computer programming degree
(iv)	Vilas	(d) Continued fish selling like his mother

(A) i-a, ii-b, iii-c, iv-d

(B) i-b, ii-a, iii-c, iv-d

(C) i-b, ii-c, iii-a, iv-d

(D) i-c, ii-a, iii-b, iv-d

87. Which of the following statements are correct?

A large population can be turned into an asset through investment in education and health. Educated parents usually neglect the education of their children.

Investment in human resources yields high returns in the future.

(A) 1 and 2 only (B) 1 and 3 only

(C) 2 and 3 only (D) All of the above

88. Which programme aims to organize poor families into self-help groups to bring them above the poverty line?

(A) Swarnajayanti Gram Swarozgar Yojana (SGSY)

(B) Antyodaya Anna Yozana (AAY)

(C) Pradhan Mantri Gramodaya Yojana (PMGY)

(D) National Rural Employment Programme

89. In which of the following states will the World's largest data centre be built?

(A) Gujarat

(B) Odisha

(C) Maharashtra

(D) Uttar Pradesh

90. What was the inspiration for including a Preamble in the Indian Constitution?

(A) The British Constitution

(B) The American model

(C) The French Revolution

(D) The Russian Constitution

91. Which country hosted the G20 Summit 2025?

(A) Germany (B) France

(C) South Africa (D) Russia

92. What does a 'Level Playing Field' mean in elections?

(A) All voters must vote

(B) All candidates must campaign online

(C) All parties get equal opportunities to compete.

(D) Only rich candidates can spend money

93. If a voter does not have their Election Photo Identity Card (EPIC), which of the following can they use to vote?

(A) Only Aadhaar Card and Driving Licence

(B) Only Ration Card and Birth Certificate

(C) Any one of 12 alternative photo identity documents such as Aadhaar Card, Passport, Driving Licence, MNREGA Job Card, or Unique Disability ID Card

(D) Only Voter Slip issued by political parties.

94. Recently, Surya Kant Sharma appointed Chief Justice of India. He is _____ Chief Justice of India.

(A) 53rd (B) 52nd (C) 54th (D) 51st

95. Reema wants to witness the geographical location where the Tropic of Cancer passes almost midway through India. She plans a train journey from Gujarat to Tripura. Which geographical fact will she most likely experience along the way?

(A) The latitudinal extent makes days longer as she travels westward.

(B) The longitude changes by almost 30°, causing no time difference.

(C) The Tropic of Cancer passes through both Gujarat and Tripura.

(D) Coastal humidity increases steadily from Gujarat to Tripura.

96. The name of volcano in ethiopia which erepted on 23rd Nov. 2025.

(A) Mount Etna

(B) Hayli Gubbi

(C) Kilauea

(D) Mount Merapi

97. Which river is known for forming the second biggest waterfall in India - Shivasamudram Falls?

(A) Krishna (B) Mahanadi
(C) Kaveri (D) Godavari

98: Which tributaries belong to the Kaveri River system?

(A) Wainganga, Pranhita, Penganga

(B) Purna, Wardha, Manjra

(C) Amravati, Bhavani, Hemavati, Kabini

(D) Ghatprabha, Musi, Tungabhadra

99. Which of the following affects the self-cleansing capacity of the river?

(A) Aquatic organisms

(B) Drawing of water for irrigation

(C) Hydroelectricity generation

(D) Pollution

100. Lakes are of great value to human beings. Which of the following statements about lakes given below is incorrect?

(A) Helps to regulate the flow of rivers

(B) It results in flooding

(C) Can be used for developing hydel power

(D) Enhances natural beauty

********** **END** **********