

Section-A (Science)

1. Which of the following list of animals live in burrows?
- A. Rabbit, Rat, Snake B. Lion, Tiger, Elephant
C. Cow, Horse, Dog D. Fish, Frog, Dog

2. Terrestrial plants are the plants which grow on land. Aquatic plants are those that grow in water. Choose the option that correctly identifies terrestrial plant and aquatic plant.

<i>Terrestrial Plant</i>	<i>Aquatic Plant</i>
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- | | |
|------------------|------------|
| A. Hydrilla | Tape grass |
| B. Rose | Teak |
| C. Venus flytrap | Tape grass |
| D. Tape grass | Hydrilla |

3. Which of the correct sets of body parts are collectively called organs of the respiratory system?

- A. Lungs, Liver, Bronchi
B. Lungs, Diaphragm, Trachea
C. Brain, Lungs, Diaphragm
D. Liver, Lungs, Diaphragm

6. Read the case carefully and answer the following question:

Aman is spending his day in different activities. In the morning, he takes an ice cream (solid form) from the freezer, after sometime it starts dripping. Later, his mother boils water for tea, he saw the bubbles formed and the steam rising. When she covers the boiling pot with a lid, tiny water drops appear on the inside of the lid. In the evening, Aman pours juice into an ice tray and keeps it in the freezer.

Which of the following correctly matches the processes Aman observed?

1. *Ice cream dripping* - ?
 2. *Steam rising from boiling water* - ?
 3. *Water drops forming on the lid* - ?
 4. *Juice turning into ice* - ?
- A. 1 → Melting, 2 → Evaporation, 3 → Condensation, 4 → Freezing
B. 1 → Freezing, 2 → Evaporation, 3 → Melting, 4 → Condensation
C. 1 → Melting, 2 → Condensation, 3 → Evaporation, 4 → Freezing
D. 1 → Condensation, 2 → Melting, 3 → Evaporation, 4 → Freezing

4. Given below is the description of the two planets of the solar system X and Y. Identify planets X and Y.

S.No	X	Y
1.	Gas giant	It is the planet with the fastest rotation.
2.	It is the second-largest planet in the solar system.	It is the largest planet in the solar system.

Choose the correct option:

- A. X → Saturn, Y → Jupiter
B. X → Neptune, Y → Jupiter
C. X → Venus, Y → Jupiter
D. X → Jupiter, Y → Saturn
5. Which of the following is not an example of condensation?
- A. A foggy mirror.
B. Dew on grass.
C. Clothes drying under the sun.
D. Water droplets on the outside of your cold drink.

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7. Fill in the blanks:

Water flowing from a dam is an example of _____ and water stored in a dam is an example of _____.

- A. potential energy, potential energy
- B. kinetic energy, potential energy
- C. kinetic energy, kinetic energy
- D. potential energy, kinetic energy

8. During the process of evaporation A converted into B. Identify A and B.

- A. A-solid, B-liquid
- B. A-gas, B-liquid
- C. A-liquid, B-gas
- D. A-gas, B-solid

9. Read the statements about force carefully and answer the following question.

Statement 1: Force can stop a moving ball.

Statement 2: Pushing a swing is an example of applying force.

Statement 3: Force can change the direction of a moving object.

Statement 4: Force cannot change the shape of an object.

Which of the above statements are correct?

- A. Statements 1, 2, and 3 only
- B. Statements 2 and 4 only
- C. Statements 1 and 4 only
- D. All statements are correct

10. Read the statements carefully and answer the following question.

- 1. Frictional force slows down or stops a moving bicycle when you apply brakes.
- 2. Gravitational force pulls a dropped stone towards the Earth.
- 3. Magnetic force attracts iron nails towards a magnet from a distance.
- 4. Muscular force is used when you push a heavy door.

Which statements indicate contact forces and which indicate non-contact forces?

- A. Contact forces: 1, 4; Non-contact forces: 2, 3
- B. Contact forces: 1, 2; Non-contact forces: 3, 4
- C. Contact forces: 2, 3; Non-contact forces: 1, 4
- D. Contact forces: 1, 3; Non-contact forces: 2, 4

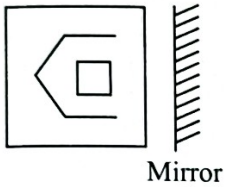
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Section-B (Technology and Engineering)

11. In Scratch, what is the "broadcast" block used for?
- To play background music
 - To send a message to other sprites or scripts
 - To draw shapes on the stage
 - To save the project file
12. How can AI help improve security in smart homes?
- It plays loud music to scare intruders
 - It paints the walls with security messages
 - It recognises unusual activity and sends alerts
 - It locks only one door in the house
13. What is the purpose of an Operating System?
- To draw pictures
 - To connect computers to the Internet
 - To manage hardware and software
 - To play music and movies
14. What is the main job of antivirus software?
- To clean up old files and make your computer run faster.
 - To find and remove harmful programs like viruses.
 - To stop annoying pop-up ads when you are on the internet.
 - To fix the computer when a program freezes or stops working.
15. Which block helps a sprite follow the mouse pointer?
- point towards [mouse-pointer]
 - go to [mouse-pointer]
 - turn right (15) degrees
 - change x by (10)
16. You want to listen to music on your computer. Which hardware do you need?
- | | |
|------------|------------|
| A. Monitor | B. Printer |
| C. Speaker | D. Webcam |
17. Which of the following is the correct use of a scanner?
- To print documents on paper
 - To record audio into the computer
 - To take pictures using a webcam
 - To copy documents into a computer
18. What is the full form of RAM?
- Read All Memory
 - Random Access Memory
 - Rapid Action Mode
 - Ready and Active Memory
19. Which of the following statements is correct about a web browser?
- A web browser is used to draw pictures on the computer
 - A web browser helps us play games without the Internet
 - A web browser lets us view websites online
 - A web browser stores files like a folder
20. What is the primary role of an ISP?
- To sell internet routers
 - To give internet access
 - To manufacture mobile phones
 - To create websites
21. Anita starts a journey by moving 6 km from North to South. Then she takes a left turn and travels 6 km. After that, she turns left again and travels 9 km. In which direction is she now from her starting point?
- South-West
 - North-East
 - South-East
 - North-West

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22. M is the son of T. S and Q is the son of M. P is the brother of M. U is the mother of P and M. How is T related to Q?
 A. Grandfather B. Son C. Brother D. Father
23. In a certain code language, BRIDGE is written as CSJEHF. How is DOMAIN written in the same code language?
 A. EPNDHO B. EPQCJO C. EPNBJO D. EQPBJO
24. Find the mirror image of the given figure.



- A. B. C. D.

25. Which of the following numbers will replace the question mark (?) in the given pattern?

6	4	5	8
3	8	9	7
7	5	6	3
25	37	51	?

- A. 45 B. 80 C. 29 D. 59

Section-C (Mathematics)

26. X and Y are natural numbers. The value of X is four times Y. Y is 3457 more than 6225. Find the successor of X.

- A. 38728 B. 38729
 C. 38730 D. 38727

27. When the sum of 7 tenths and 8 thousandths is subtracted from the fifth multiple of 7, what will be the result in decimal form?

- A. 34.708 B. 34.292
 C. 35.708 D. 33.292

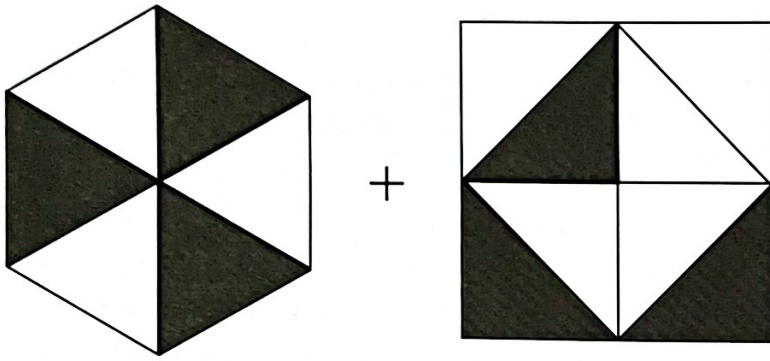
28. Match Column A with Column B and choose the correct answer.

Column A (Roman numbers)		Column B (Values)	
i.	DCCXLV	a.	900
ii.	CDXC	b.	169
iii.	CM	c.	490
iv.	CLXIX	d.	745

- A. i → a, ii → b, iii → c, iv → d
 B. i → b, ii → a, iii → d, iv → c
 C. i → d, ii → c, iii → a, iv → b
 D. i → b, ii → d, iii → c, iv → a

Space for Rough Work

29. When the fractions represented by the shaded parts of the figures are added, what is the resulting fraction?



- A. $\frac{5}{8}$ B. $\frac{7}{8}$ C. $\frac{3}{4}$ D. $\frac{7}{9}$

30. A shop sells pens for ₹8 each and notebooks for ₹12 each. On Monday, the shop sold 25 pens and 18 notebooks. On Tuesday, it sold twice as many pens as on Monday and 3 fewer notebooks than on Monday. How much money did the shop earn in total over these two days?

- A. ₹669
B. ₹796
C. ₹879
D. ₹996

31. Pole P is twice as long as Pole Q. Pole R is 40 m shorter than Pole P. If the total length of Pole Q and Pole R is 260 m, find the total length of all three poles.

- A. 390 m
B. 460 m
C. 520 m
D. 630 m

32. A factory packs 15 sacks of rice every day. Each sack weighs 36 kg. In 7 days, 3 sacks were damaged and could not be sold. What is the total weight of rice (in kg) that can be sold after 7 days?

- A. 3,672 kg
B. 2,627 kg
C. 3,591 kg
D. 4,620 kg

33. Read the statements below and choose the correct option.

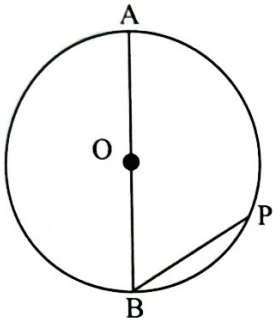
Statement 1: A chord is a line that joins two points on a circle.

Statement 2: The diameter is the longest chord of the circle.

- A. Statement 1 is true and Statement 2 is false
B. Statement 2 is true and Statement 1 is false
C. Both the statements are true
D. Both the statements are false


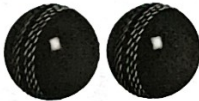



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34. In a circle with center O, the chord PB is equal in length to the radius of the circle. If the diameter AB = 48 cm, find the length of the chord PB.



- A. 12 cm B. 48 cm C. 24 cm D. 36 cm

35. The pictograph below shows the number of runs scored by four teams in a tournament. Study the pictograph carefully and answer the question that follows:

India	
South Africa	
New Zealand	
England	
 represents 15 runs.	

Which of the following teams scored more runs than India?

- A. Only England B. Only New Zealand
 C. South Africa and England together D. New Zealand and England together

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