



NEEV ACCELERATE TALENT REWARD EXAM'26

Sample Test Paper – Class 9

Total Questions: 30 | Each question has one correct answer

SECTION A – SCIENCE

1. A body moves with constant speed but changes direction. What is its motion called?
A) Uniform motion B) Non-uniform motion
C) Accelerated motion D) Uniform circular motion
2. Which of the following is NOT a mixture?
A) Air B) Brass C) Distilled water D) Milk
3. A force of 20 N produces an acceleration of 4 m/s^2 . The mass of the body is—
A) 5 kg B) 4 kg C) 6 kg D) 8 kg
4. Which tissue transports food in plants?
A) Xylem B) Phloem C) Parenchyma D) Sclerenchyma
5. The SI unit of work is—
A) Watt B) Newton C) Joule D) Pascal
6. Which statement is true about sound?
A) Travels faster in air than solids B) Cannot travel in vacuum

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- C) Frequency determines loudness D) Light is needed for sound
7. A substance that sublimates is—
A) Ice B) Sodium chloride C) Camphor D) Sugar
8. Rutherford's model failed to explain—
A) Electrons in orbit B) Nucleus existence
C) Stability of atoms D) Positive charge
9. A cereal crop that fixes nitrogen with Rhizobium is—
A) Wheat B) Rice C) Gram D) Maize
10. Which of the following is a chemical change?
A) Melting wax B) Breaking glass C) Rusting iron D) Crushing ice

SECTION B – MATHEMATICS

11. Value of $5\sqrt{3} \times \sqrt{3}$ is—
A) 3 B) 15 C) 5 D) $\sqrt{3}$
12. If $3x + 7 = 25$, value of x is—
A) 6 B) 5 C) 4 D) 8
13. The polynomial $x^2 - 4x + 4$ is—
A) Irreducible B) Perfect square
C) Linear D) Zero polynomial
14. Slope of a line parallel to x-axis is—
A) 0 B) 1 C) Undefined D) 2
15. A triangle has sides 6 cm, 8 cm, 10 cm. Its area using Heron's formula is—

A) 24 cm^2 B) 30 cm^2 C) 48 cm^2 D) 36 cm^2

16. A cylinder of radius 7 cm and height 10 cm has volume—(use $\pi=22/7$)

A) 1540 cm^3 B) 770 cm^3 C) 440 cm^3 D) 2200 cm^3

17. Mean of 3, 5, 7, 9, 11 is—

A) 5 B) 7 C) 8 D) 9

18. If $a:b = 3:4$ and $b:c = 2:5$, then $a:c =$ —

A) 6:5 B) 3:10 C) 3:8 D) 3:5

19. A bag has 6 red and 4 blue balls. Probability of picking a red ball is—

A) $\frac{1}{2}$ B) $\frac{3}{5}$ C) $\frac{2}{3}$ D) $\frac{3}{4}$

20. In $\triangle ABC$, if $\angle A = 90^\circ$ and $AB = AC$, the triangle is—

A) Scalene B) Right isosceles

C) Equilateral D) Obtuse

SECTION C – REASONING

21. Next number: 7, 14, 28, 56, _

A) 72 B) 84 C) 112 D) 98

22. Odd one out: 16, 25, 36, 49

A) 25 B) 49 C) 36 D) 16

23. If DOG = EPH, then CAT =

A) DBU B) DBV C) EBU D) DBT

24. A walks East 5 m, then North 5 m. He is in which direction from start?

A) NE B) NW C) SE D) SW

25. Find the missing term: AX, DW, GU, __

A) JQ B) JQ C) JT D) JQ

26. Mother is twice the age of her daughter. If mother is 36, daughter is—

A) 12 B) 16 C) 18 D) 20

27. Statements: All pens are blue. Some blue things are plastic. Conclusion: Some pens may be plastic.

A) True B) False C) Cannot say D) None

28. 2, 5, 11, 23, __

A) 45 B) 46 C) 47 D) 48

29. Which Venn diagram fits: Students, Athletes, Girls (some girls are athletes; some students are girls)?

A) Disjoint B) One inside another
C) Three overlapping D) Two overlapping circles

30. Table: A=2, B=4, C=6,... then code for F?

A) 10 B) 12 C) 14 D) 16

ANSWER KEY WITH EXPLANATIONS

Q1 – C – Uniform speed but changing direction = circular motion.

Q2 – C – Distilled water is pure, not a mixture.

Q3 – A – Using $F=ma \rightarrow m=20/4=5$ kg.

Q4 – B – Phloem transports food.

Q5 – C – Unit of work is Joule.

Q6 – B – Sound cannot travel in vacuum.

- Q7 - C - Camphor sublimates.
- Q8 - C - Model could not explain stability of atoms.
- Q9 - C - Gram is a legume fixing nitrogen.
- Q10 - C - Rusting is chemical change.
- Q11 - B - $\sqrt{3} \times \sqrt{3} = 3 \rightarrow 5 \times 3 = 15$.
- Q12 - A - $3x = 18 \rightarrow x = 6$.
- Q13 - B - $(x-2)^2$ gives $x^2 - 4x + 4$.
- Q14 - A - Slope of line parallel to x-axis = 0.
- Q15 - A - Sides form right triangle; area = 24.
- Q16 - A - $\pi r^2 h = (22/7) \times 49 \times 10 = 1540$.
- Q17 - B - Mean = $35/5 = 7$.
- Q18 - C - $a:b=3:4, b:c=2:5 \rightarrow a:c=3 \times 2 : 4 \times 5 = 6:20 = 3:10$.
- Q19 - B - $P(\text{red}) = 6/10 = 3/5$.
- Q20 - B - Right angle + equal sides = right isosceles.
- Q21 - C - $\times 2$ pattern \rightarrow next = 112.
- Q22 - B - 49 is 7^2 , odd one out? Actually 25 is 5^2 ? Adjust: 49 is 7^2 while others are even squares.
- Q23 - A - C increases each letter by 1.
- Q24 - A - Resulting direction = NE.
- Q25 - C - Pattern -2 letters, -1 letter = JT.
- Q26 - B - $36/2 = 18$.
- Q27 - A - Possible some pens are plastic.
- Q28 - D - Pattern $\times 2 + 1 \rightarrow$ next = 47.
- Q29 - C - Three sets overlap.

Q30 - A - A=2, add 2 per letter → F=12.

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