

NINTH CLASS MODEL PAPER (AP)

SUMMATIVE ASSESSMENT - 1

GENERAL SCIENCE (Physical Science)

PAPER - I (English Version)

Time: 2 Hrs. 45 Min.	PART - A and B	Max.Marks: 40
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Instructions:

1. 15 minutes of time is allotted for reading the question paper.
2. Answer All the questions.
3. Answers for questions under PART - A should be written in a separate answer booklet.
4. The question paper consists of 4 sections and 33 questions.
5. There is an internal choice in Section - III.
6. Write answers neatly and legibly.

Time: 2 Hrs.	PART - A	Marks: 30
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SECTION - I

Note: i) Answer All questions.

4 × 1 = 4

ii) Each question carries 1 mark.

1. A mixture contains camphor and sodium chloride. Which technique is used to separate them?
2. If the solute particles are settled down in a solution, can we call it as a homogeneous mixture.
3. Uma said to Mounika 'Mass is neither created nor destroyed during a chemical reaction'. What is your opinion?
4. When does a concave mirror form virtual image.

SECTION - II

Note: i) Answer All questions.

5 × 2 = 10

ii) Each question carries 2 marks.

5. Correct your friend who says 'the car rounded the curve at a constant velocity of 70 kmph'.
6. Give two examples for non-uniform motion in your daily life situations.
7. Identify the solutions among the following mixtures. Give reason.
a) Soil b) Sea water c) Air d) Coal
8. Mohit said H_2 differs from $2H$. Justify.
9. Air bags are used in the cars for safety. Why?

SECTION - III

Note: i) Answer All questions.

4 × 4 = 16

ii) Each question carries 4 marks.

iii) Each question has an internal choice

10. a) Distinguish between Speed and Velocity.

(OR)

b) What is Newton's second law of motion? Derive the expression.

11. a) Describe an experiment to verify the law of conservation of mass.

(OR)

b) Which of the following will show Tyndall effect? How can you demonstrate Tyndall effect in them.

i) Salt solution ii) Milk iii) Copper sulphate solution iv) Starch solution

12. a) Concave or Convex mirrors in your surroundings. Make a table.

(OR)

b) Complete the following table.

Element	Latin Name	Symbol
Sodium	Natrium
....	Argentum	Ag
Potassium	K
....	Cuprum	Cu
Gold	Aurum
....	Ferrum	Fe
Lead	Pb
Tungsten	Wolfram

13. a) Draw a neat diagram of separation of the mixture of reaction and water by distillation.

(OR)

b) Sukumar saw his face in car rear view mirror. He observed that his image is smaller than the original.

i) What type of mirror it is?

ii) What is the nature of image?

iii) Draw ray diagram for it.

Time : 30 Mins.

PART - B

Marks: 10

SECTION - IV

Note: i) Choose the correct answer from the options given and write the corresponding letter in the bracket.

$$20 \times \frac{1}{2} = 10$$

ii) Each question carries $\frac{1}{2}$ mark.

iii) Marks will not be awarded for rewriting or over writing answers.

14. Which of the following is a scalar quantity? ()
 A) Electric energy B) Acceleration C) Momentum D) Displacement
15. S.I. unit of acceleration is ()
 A) m/s B) kmph C) m/s² D) cm/s²
16. The shortest distance covered by fine moving object in a specified direction is called ()
 A) velocity B) motion C) displacement D) acceleration
17. Two miscible liquids differing in their boiling points by 30°C can be separated by ()
 A) simple distillation B) fractional distillation
 C) evaporation D) any method
18. When a substance is homogeneous we call it..... ()
 A) mineral B) solution C) mixture D) colloid
19. The major component of a solution ()
 A) solvent B) solute C) phase D) none
20. Milk is example for ()
 A) an emulsion B) a colloid
 C) liquid dispersed in another liquid D) all the above
21. Product of mass and acceleration measure ()
 A) Velocity B) Force C) Momentum D) Impulse
22. A jet engine or a rocket works on the principle of ()
 A) Conservation of momentum B) Conservation of mass
 C) Newtons second law of motion D) Conservation of energy
23. In an isolated system the total is conserved. ()
 A) force B) momentum C) velocity D) acceleration
24. kg mg⁻² is the S.I. unit of ()
 A) Force B) Speed C) Momentum D) Inertia
25. Assertion (A): Pace bowler runs in from a long distance before he bowls. ()
 Reason (R): To acquire dynamic inertia.
 A) A is correct, R is incorrect.
 B) A is incorrect, R is correct .
 C) Both A, R are correct, R is correct explanation of A.
 D) Both A, R are correct, R is not correct explanation of A.

26. Rate of change of momentum is proportional to ()
 A) Net force B) Net speed C) Motion D) Pressure
27. The law of definite proportions was given by ()
 A) Joseph Proust B) John Dalton C) Antoine Lavoisier D) Berylius
28. Value of Avogadro's number is ()
 A) 6.023×10^{23} B) 6.023×10^{24} C) 6.023×10^{21} D) 6.023×10^{20}
29. The common name of compound Hydrogen monoxide is ()
 A) Water B) Salt C) Washing soda D) Baking soda
30. The formula of phosphoric acid ()
 A) H_3PO_4 B) HPO_3 C) H_2PO_3 D) H_2SO_4
31. The combining capacity of an element is known as ()
 A) Atomic number B) Valency C) Atomicity D) Mole
32. Which one of the following is a correct electronic configuration of sodium? ()
 A) 2, 8 B) 8, 2, 1 C) 2, 1, 8 D) 2, 8, 1
33. The focal length of a spherical mirror of radius of curvature 30 cm is ()
 A) 10 cm B) 15 cm C) 20 cm D) 30 cm

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