

MODEL PAPER-1
SUMMATIVE ASSESSMENT-1

Subject : Physical Science Paper-I
Class : IX

PART-A
Max.Marks : 30

Medium : English Medium
Time : 2.45Hr

SECTION –I

NOTE : Answer all the questions.

4x1=4M

Each question carries 1 Mark.

1. What is the momentum of a 6.0 kg bowling ball with a velocity of 2.2m/s?
2. If a fly collides with the windshield of a moving bus, is the impact force experienced same for the fly and the bus? Why?
3. Write the valencies of Fe in FeCl_2 and FeCl_3 ?
4. There is a mixture with sand and Iron fillings. How do you separate Iron fillings from sand.

SECTION –II

NOTE : Answer all the questions.

5x2=10M

Each question carries 2 Mark.

5. Distinguish between speed and velocity?
6. Why does a cricketer move his hands backwards while catching fast moving cricket ball? Explain.
7. Write the steps you would use for making tea. Use the words given below and write the steps for making tea.
Solution, Solvent, Solute, dissolve, soluble, insoluble filtrate and residue.
8. Mohan said “ O_2 differs from O”. Do you agree? Justify.
9. Complete the table”

Mixture	Is the path of the light beam visible (Yes/No)	Did solute settle down(Yes/No)
Chalk Mixture		
Milk Mixture		

SECTION –III

NOTE : Answer all the questions.

4x4=16M

Each question carries 4 Mark.

10. (a) A particle moving with constant acceleration of 2m/s^2 due west has a initial velocity of 9 m/s due east. Find the distance covered in the fifth second of its motion.

(or)

- (b) Illustrate an example of each of the three law of motion.

11. (a) Describe paper chromatography activity to observe the colours present in a marker ink.

(or)

(b) Explain the process and precautions in verifying law of conservation of mass.

12. Complete the table.

(a)

<i>Anions</i> → ↓ <i>Cations</i>	<i>Chloride</i>	<i>Sulphate</i>
Sodium	NaCl	
Magnesium		MgSO ₄
Calcium	CaCl ₂	
Aluminum		Al ₂ (SO ₄) ₃

(or)

(b)

<i>Time(tin seconds)</i>	<i>Distance(s in meters)</i>
0	0
1	4
2	8
3	12
4	16
-	-

Answer the following questions:

- Draw distance VS time graph for the given values in the table.
- What is the shape of the graph?
- Which type of motion is present here?
- What is the distance covered in 5 seconds?

13. (a) Draw an arrangement of apparatus of fractional distillation experiment. What is the advantage of using fractionating column?

(or)

(b) Name the machine use to prove Newton's Laws of motion. Draw a neat diagram of it.

SUMMATIVE ASSESSMENT-1

Subject : Physical Science Paper-I

Medium : English Medium

Class : IX

PART-B

Max.Marks : 10

Academic Standards	AS1	AS2	AS3	AS4	AS5	AS6	Total
Question Numbers	3,5,6,10 14-27	2,8 28-29	4,11 30-31	9,12	13	1,7 32-33	33
Marks Allotted	16	4	6	6	4	4	40
Marks Obtained							
Grade							

Name of the Student : _____

Roll No: _____

SECTION IV

NOTE : i) Answer all the questions.

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

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

iii) Marks will not be awarded in case of over-writing, rewritten or erased answers.

iv) Write the CAPITAL LETTER(A,B,C,D) showing the correct answer for the following questions in the brackets. Provided against them.

14. Acceleration of a person moving with constant velocity. []
A) Infinite B) Positive C) Negative D) Zero
15. Factors affecting the solubility are []
A) Temperature of the solvent B) Size of the particles of the solute
C) Stirring of contents D) All the above
16. Product of mass and velocity of a n object in known as its []
A) Impulse B) Momentum C) Inertia D) Force
17. Valency of Argon is []
A) 0 B) 1 C) 2 D) 3
18. A physical quantity with magnitude as well as direction is called _____ []
A) Scalar B) Vector C) Tension D) None of these
19. The S.I unit of accelerations is []
A) m B) m/s C) m/s^2 D) m^2/s
20. The tendency of an object to resist a change in their state of rest or uniform motion is _____ []
A) Conservation B) Acceleration C) Inertia D) Compression
21. Which of the following is an emulsion []
A) Sugar Solution B) Mixture of oil and water
C) Nail Polish D) Lemon Juice
22. Coloured pigments in plants can be separated by []
A) Distillation B) Evaporation

C) Fractional distillation

D) Paper chromatography

23. The latin name of the element gold is []

A) Aurum

B) Plumbum

C) Kalium

D) Wolfrum

24. Assertion (A) : Displacement is a Vector

Reason (B) : Displacement has both magnitude and direction []

A) Both A and R are true and R is the correct reason for A

B) A is true but R is false

C) A is a false but R is true

D) Both A and R are true and R is not the correct reason for A

25. Force, F= []

A) $m\left(\frac{v-u}{t}\right)$

B) ma

C) $\frac{mv}{t}$

D) Both A and B

26. When a solid changes directly to gaseous state, the process is called []

A) Evaporation

B) Boiling

C) Sublimation

D) Diffusion

27. Among the following which element has more number of atoms? []

A) Sodium

B) Chlorine

C) Nitrogen

D) Carbon

28. Ramesh wanted to find instantaneous speed of the car in which he was travelling. He should see which one of the following meters. []

A) Anemometer

B) Odometer

C) Speedometer

D) Thermometer

29. Acetone – water : Distillation : : []

Ammonium Chloride – Salt : ?

A) Evaporation

B) Filtration

C) Sublimation

D) Fractional distillation

30. Tie a stone to a rope whirl the rope and rotate the stone in a circular path, cut the rope. Your observation is, []

A) Stone moves along the tangent of the path

B) Stone falls in the centre of the path

C) Stone takes reverse direction

D) None of the above

31. The method of separation of tea leaves from tea is called []

A) Filtration

B) Seiving

C) Distillation

D) Sublimation

32. When we apply breaks to a car, then it travels with []

A) Constant velocity

B) Acceleration

C) Retardation

D) Uniform Velocity

33. Ornaments that we wear contains _____ metal. []

A) Mercury

B) Sodium

C) Calcium

D) Gold