# SUMMATIVE ASSESSMENT - I - 2021 - 2022

## GENERAL SCIENCE - Paper - I

Physical Science of the small

(English Medium)

PART - A & B

Class: IX]

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(Max. Marks: 40)

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[ Time : 2.45 Hrs.

#### Instructions:

- 1. There are four sections in question paper.
- 2. Part A answers should be written in separate answer sheet.
- 3. Answer all the questions.
- 4. There is an internal choice in Section III of Part A.
- 5. Every answer should be written visibly and neatly.

Marks: 30 ]

Contd. 3rd

PART - A

[ Time : 2 hrs.

## SECTION - I store from early with the )

- Note: 19 1. Answer all the questions.
  - 2. Each question carries 1 mark.
  - 3. Answer each question in 1 or 2 sentences.

- 1. Which separation techniques will you apply for the separation of
  - a) Different pigments from an extract of flower parts.
  - b) Ammonium chloride from a mixture of sodium chloride and ammonium chloride.
- 2. What do you know about magnification?
- 3. Imagine what would happen if we donot have standard symbols for elements? as how do you do not that produced in
- 4. Which machine is used in a diagnostic laboratory, to test blood samples and urine samples? serious greens, and a sufficient ones of sort - t

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#### SECTION - II

Note:

- 1. Answer all the questions.
- 2. Each question carries 2 marks.

 $5 \times 2 = 10$ 

- Correct your friend who says, "the car rounded the curve at a constant velocity of 70 km./h."
- 6. Read the following paragraph and answer the following questions.

A solution of sugar is prepared by dissolving sugar in water. Tincture of iodine is made by dissolving iodine in alcohol.

- a) What is solute in sugar solution?
- b) What is solvent in tincture of iodine?
- 7. Abhi trying to find momentum of 10 kg. ball, moving with a velocity of 2.5 m/s. Can you help him?
- 8. Calculate the molecular mass of H<sub>2</sub>SO<sub>4</sub>.
- 9. What are the materials required to find the acceleration and velocity of an object moving on an inclined track?

### SECTION - III

Note:

- 1. Answer all the questions.
- 2. Each question has internal choice.
- 3. Each question carries 4 marks.

 $4 \times 4 = 16$ 

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10. a) An object moving with 6 m. per second execute an acceleration 2 m/s<sup>2</sup> in next 3 seconds. How much distance it covered?

(Or)

- b) Explain Newton's second and third laws with suitable examples.
- 11. a) How do you demonstrate Tyndall effect in milk and salt solution?
  - b) How do you conduct a lab activity to observe the change in the mass before and after a chemical reaction?

[ Contd... 3rd

12. a) The values of object distance (v) and image distance (v) are tabulated in the experiment to find the focal length of a concave mirror, as follows.

| Sl.No. | Object distance (v) | Image distance (v) |  |  |
|--------|---------------------|--------------------|--|--|
| 1.     | 30 cm.              | Infinitý           |  |  |
| 2.     | 40 cm.              | 120 cm.            |  |  |
| 3.     | 50 cm.              | 75 cm.             |  |  |
| 4.     | 60 cm.              | 60 cm.             |  |  |

Answer the following questions.

- i) What is the focal length of the concave mirror?
- ii) What is the radius of curvature of the mirror?
- iii) At what distance, the object be placed to get a virtual image?
- iv) If object is kept at 50 cm. from pole, what are the characteristics of the image formed?

(Or)

b) Complete the following table, using Criss - Cross Formula.

| Anions →                      | Chloride      | Sulphate          | Phosphate     |
|-------------------------------|---------------|-------------------|---------------|
| Cations ↓                     | (C <i>I</i> ) | $(SO_4^{-2})$     | $(PO_4^{-3})$ |
| Potassium (K <sup>+</sup> )   |               |                   |               |
| Zinc (Zn <sup>+2</sup> )      |               | ZnSO <sub>4</sub> |               |
| Aluminium (Al <sup>+3</sup> ) |               |                   | 1             |

13. a) Show the formation of image with a ray diagram when an object is placed on the principal axis of a concave mirror away from the centre of curvature. Write the characteristics of image formed.

(Or)

b) Draw the figure of arrangement of apparatus for fractional distillation and label the parts.

[ Time: 30 Mnts.

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# SUMMATIVE ASSESSMENT - I - 2021 - 2022

## GENERAL SCIENCE - Paper - I

### Physical Science

(English Medium), arrest roman and diagram

PART - B

(Max. Marks: 10)

Class: IX ]

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C) Hydrogen Sulphide

Contd... 3rd

| Q. No.s           |  |                                       |               |   |   |   |  |     |
|-------------------|--|---------------------------------------|---------------|---|---|---|--|-----|
| )                 | 1,2,8,10,14,15,16,<br>17,18,19,21,23,24,25,<br>26,27,29,30,31,33         | 3,5,20,22                             | 29,1110       | 6,12                                      | b:13  | 4,7,28,32   | 33                                       | ć L |
| Allotted<br>Marks | bno A.16 mm.m  | iol4.()                               | 6             | 111.63 (I                                 | 4   | ods <b>4</b> jm)  | 40                                       |     |
| Total             | era lasila emy   | (a) orb                               | espat er      | ghruur                                    | adro  | r switted   | 13                                       | 15  |
| Name of the       | Student:   |                                       |               |   | Ro  | oll No.:  | •••••                                    |     |
| Note:- 1) 2) 3)   | Choose the correct write them in CA  Each question car  Rewrite and over | PITAL L                               | ETTE<br>mark. | RS.<br>w wall o                           | di baş<br>Nwaya   | oqorq od<br>o barated   | H .                                      |     |
|                   | 7.7  | 14 2 257                              |               |   |   | 20 x  | '/D =                                    |     |
| 14. Which         | of the following is n  | Tomers as                             | r quanti      | 1912<br>ity ?                             | Lavol<br>y of a   | uni/aA (  |  |     |
| A) Ma             | of the following is n  | not a scala<br>not a scala<br>(ign C) | r quanti      | ity ?<br>6 ar as<br>9 K X 00<br>2 ar as s | Lavol a you a la you | Antune se volocat sec son sec sec son sec sec son sec | o di | 22  |

D) Sulphur dioxide

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| 17. | The symbol of Calcium is [ ]   |
|-----|--|
|     | A) C B) Ca C) CA D) CL   |
| 18. | Identify the mirror formula in the latest [ ]  |
| 211 | A) $\frac{1}{f} = \frac{1}{u} - \frac{1}{v}$ (0) $\frac{1}{f} = \frac{1}{v} - \frac{1}{u}$   |
|     | C) $\frac{1}{u} = \frac{1}{v} + \frac{1}{f}$ D) $\frac{1}{f} = \frac{1}{u} + \frac{1}{v}$ but are  |
| 19. | of rest is called [ ]  |
|     | A) Impulse B) Inertia C) Momentum D) A and B   |
| 20. | When we go through deep forest, the following effect can be observed  [ ]  |
| 21. | A) Photoelectric effect B) Raman effect C) Tyndall effect D) Comphton effect Who proposed the law which states that "a given chemical substance always contains the same elements combined in a fixed proportions by mass" |
|     | A) Joseph L. Proust B) John Dalton   |
| 22. | C) Antaine Lavoisier D) John Berzellus   |
|     | A) 25 B) 30 (C) 5 D) 35 (A   |
| 23. |  |
|     | A) Motion  B) Rest  C) Equilibrium  D) None  [Contd 3rd  |
|     | [ Colid Sid  |

| Which of the following substances is not pure?                       |  |  |   |  |  |  |
|--|--|--|---|--|--|--|
| A) Sodium Chloride   |  | iate   |   |  |  |  |
| C) Gold  | D) Air   |  |   |  |  |  |
| If atoms of different elements c                                     | ombine then  | is formed.   | [   | 1  |  |  |
| A) Solution  | B) Element   |  |   |  |  |  |
| C) Compound  | D) Mixture   |  |   |  |  |  |
| Instantaneous speed can be rep                                       | oresented by   | of the   |   |  |  |  |
| curve at a given instant of time.                                    | 100  | 11 11 4 A B  | 1   | - ]  |  |  |
| A) Distance B) Mid point   | C) A & B   | D) Slope   |   |  |  |  |
| The measurement of amount of solute that dissolve in a solvent       |  |  |   |  |  |  |
| at constant temperature is   |  | a tel a made a   | [   | 1  |  |  |
| A) Solubility B) Dilution  | C) Concentratio  | n D) Saturatio   | n   |  |  |  |
| When a bird fly, it push the air                                     | downwards with it  | s wings with a   |   |  |  |  |
| force of 10 N, then the force applied by the air to push the bird in |  |  |   |  |  |  |
| upward direction is  | <del>-</del>   |  | [   | . ]  |  |  |
| A) 98 N B) 10 N  | C) 100 N   | D) 9.8 N   |   |  |  |  |
| The Latin name of Tungsten is  |  |  | [   | _ ]  |  |  |
| A) Natrium B) Wolfrum  | C) Kalium  | D) Cuprum  |   |  |  |  |
| Change in momentum depends   | son  |  | [   | ]  |  |  |
| A) Magnitude of force  | B) Time  |  |   |  |  |  |
| C) Both A & B  | D) None  |  |   |  |  |  |
| The valency of carbonate ion i                                       | s  | 64   | ſ   | ]  |  |  |
| A) 2 B) 3  | C) 4   | D) 1   |   |  |  |  |
| If a car is travelling westwards                                     | with a constant sp   | eed of 20 m/s,   |   |  |  |  |
| what is the resultant force acting on it?                            |  |  |   |  |  |  |
| A) 20 N B) 0 N   | C) 10 N  | D) 120 N   |   |  |  |  |
| Which of the following is a dia                                      | ntomic molecule?   |  | [   | ]  |  |  |
| A) Oxygen B) Argon   | C) Ozone   | D) Sulphur   |   |  |  |  |
|  | A) Sodium Chloride C) Gold If atoms of different elements of A) Solution C) Compound Instantaneous speed can be reported at a given instant of time. A) Distance B) Mid point The measurement of amount of at constant temperature is A) Solubility B) Dilution When a bird fly, it push the air force of 10 N, then the force apupward direction is A) 98 N B) 10 N The Latin name of Tungsten is A) Natrium B) Wolfrum Change in momentum depends A) Magnitude of force C) Both A & B The valency of carbonate ion in A) 2 B) 3 If a car is travelling westwards what is the resultant force action A) 20 N B) 0 N Which of the following is a diagonal content of the following is a diago | A) Sodium Chloride C) Gold D) Air  If atoms of different elements combine then A) Solution B) Element C) Compound D) Mixture  Instantaneous speed can be represented by curve at a given instant of time. A) Distance B) Mid point C) A & B  The measurement of amount of solute that dissolv at constant temperature is A) Solubility B) Dilution C) Concentration When a bird fly, it push the air downwards with it force of 10 N, then the force applied by the air to upward direction is A) 98 N B) 10 N C) 100 N  The Latin name of Tungsten is A) Natrium B) Wolfrum C) Kalium Change in momentum depends on A) Magnitude of force B) Time C) Both A & B D) None The valency of carbonate ion is A) 2 B) 3 C) 4  If a car is travelling westwards with a constant sp what is the resultant force acting on it? A) 20 N B) 0 N C) 10 N Which of the following is a diatomic molecule? | A) Sodium Chloride C) Gold D) Air  If atoms of different elements combine then is formed. A) Solution B) Element C) Compound D) Mixture  Instantaneous speed can be represented by of the curve at a given instant of time. A) Distance B) Mid point C) A & B D) Slope The measurement of amount of solute that dissolve in a solvent at constant temperature is A) Solubility B) Dilution C) Concentration D) Saturation When a bird fly, it push the air downwards with its wings with a force of 10 N, then the force applied by the air to push the bird in upward direction is A) 98 N B) 10 N C) 100 N D) 9.8 N The Latin name of Tungsten is A) Natrium B) Wolfrum C) Kalium D) Cuprum Change in momentum depends on A) Magnitude of force B) Time C) Both A & B D) None The valency of carbonate ion is A) 2 B) 3 C) 4 D) 1  If a car is travelling westwards with a constant speed of 20 m/s, what is the resultant force acting on it? A) 20 N B) 0 N C) 10 N D) 120 N Which of the following is a diatomic molecule? | A) Sodium Chloride C) Gold D) Air  If atoms of different elements combine then is formed. [ A) Solution B) Element C) Compound D) Mixture  Instantaneous speed can be represented by of the curve at a given instant of time. [A) Distance B) Mid point C) A & B D) Slope  The measurement of amount of solute that dissolve in a solvent at constant temperature is [ A) Solubility B) Dilution C) Concentration D) Saturation  When a bird fly, it push the air downwards with its wings with a force of 10 N, then the force applied by the air to push the bird in upward direction is [ A) 98 N B) 10 N C) 100 N D) 9.8 N  The Latin name of Tungsten is [ A) Natrium B) Wolfrum C) Kalium D) Cuprum  Change in momentum depends on [A) Magnitude of force B) Time C) Both A & B D) None  The valency of carbonate ion is [ A) 2 B) 3 C) 4 D) 1  If a car is travelling westwards with a constant speed of 20 m/s, what is the resultant force acting on it? [A) 20 N B) 0 N C) 10 N D) 120 N  Which of the following is a diatomic molecule? |  |  |