

ASS

## ANNUAL EXAMINATION - 2025

9 - Std

## SCIENCE

Time : 3.00 Hrs

## PART - A

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Marks : 75

## I) Answer all the questions.

12 x 1 = 12

- Which among the following is not a device to measure mass?  
a) Spring balance      b) Beam balance  
c) Physical balance      d) Digital balance
- The size of an air bubble rising up in water  
a) decreases      b) increases  
c) remains same      d) may increase or decrease
- We can create enlarged, virtual images with  
a) concave mirror      b) plane mirror      c) convex mirror
- The term nucleons refer to  
a) protons and electrons      b) only neutrons  
c) electrons and neutrons      d) protons and neutrons
- The element that would form anion by gaining electrons in a chemical reaction is .....  
a) potassium      b) calcium      c) fluorine      d) iron
- A phenomenon in which an element exists in different modification in same physical state is called  
a) isomerism      b) allotropy      c) catenation      d) crystallinity
- Which of the following does not contain natural dyes?  
a) Potato      b) Beetroot      c) Carrot      d) Turmeric
- Mesoglea is present in  
a) Porifera      b) Coelenterata      c) Annelida      d) Arthropoda
- Aerenchyma is found in  
a) Epiphytes      b) Hydrophytes      c) Halophytes      d) Xerophytes
- Bile helps in the digestion of .....  
a) Proteins      b) Sugar      c) Fats      d) Carbohydrates
- The organ affected by jaundice is a  
a) liver      b) lungs      c) kidney      d) brain
- A presentation consists of many .....  
a) Pages      b) slides      c) placeholders      d) messages

## PART - B

## Answer any 7 questions of the following. Q.No. 22 compulsory.

7 x 2 = 14

- What are electric lines of force?
- Concave mirrors are used by dentists to examine teeth. Why?
- You and your friend are on the moon. Will you be able to hear any sound produced by your friend?
- What factors have made life on Earth possible?
- Which of the following are pure substance?**  
Ice, Milk, Iron, Hydrochloric acid, Mercury, Brick and Water.
- Write any four uses of acids.
- What is nematocyst?



20. Give the technical terms for the following.  
 a) Growth dependent movement in plants.  
 b) Growth independent movement in plants.
21. What is an adulterant?
22. If, 25C of charge is determined to pass through a wire of any cross section in 50s, what is the measure of current?

**PART - C**

**Answer any 7 questions. Q.No. 32 is compulsory.**

7 x 4 = 28

23. a) State Fleming's Left Hand Rule. b) List the main parts of an electric motor.
24. a) How does the water kept in an earthen pot remain cool?  
 b) Why do people prefer wearing white clothes during summer?
25. Explain how does SONAR work?
26. **a) Match the following.**
- |                         |   |               |
|-------------------------|---|---------------|
| a) Triads               | - | Newlands      |
| b) Alkali metal         | - | Calcium       |
| c) Law of octaves       | - | Henry Moseley |
| d) Alkaline-earth metal | - | Sodium        |
| e) Modern Periodic Law  | - | Dobereiner    |
- b) State modern periodic law.
27. Differentiate graphite and diamond.
28. Differentiate between flat worms and round worm?
29. a) Why do we sweat? b) Mention any two vital functions of human kidney.
30. a) Distinguish between Virion and Viroid.  
 b) Name two common mosquitoes and the diseases they transmit.
31. List some of the ways in which you could save water in your home and school.
32. Determine the Oxidation number.  
 a) Oxidation number of H and O in  $H_2O$  b) Oxidation number of S in  $H_2SO_4$

**PART - D**

**Answer all the questions. Draw diagrams wherever necessary.**

3 x 7 = 21

33. i) a) Define measurement.  
 b) Write the rules that are followed in writing the symbols of units in SI system.  
**(OR)** ii) a) Write the spherical mirror formula and explain the meaning of each symbol used in it.  
 b) Explain with diagrams how refraction of incident light takes place form  
 a) rarer to denser medium b) denser to rarer medium  
 c) normal to the surface separating the two media.
34. i) a) State any five features of modern periodic table.  
 b) Write a note on different types on bonds. **(OR)**  
 a) What are called Anaesthetics? How are they classified?  
 b) Explain the types of dyes based on their method of application.
35. i) a) What are permanent tissues? Describe the different types of simple permanent tissues. **(OR)**  
 b) What are the types of vegetable garden?  
 b) List the medicinal importance of honey.