

ANNUAL EXAMINATION - 2024
SCIENCE

9 - STD

Time: 3.00 Hrs

--	--	--	--	--	--

Marks : 75

PART - A

12 X 1 = 12

Answer all the question.

- Which among the following is not a device to measure mass?
(a) Spring balance (b) Beam balance
(c) Physical balance (d) Digital balance
- Resistance of a wire depends on,
(a) temperature (e) nature of material
(b) geometry (d) all the above
- Which of the following is not a part of outer solar system?
(a) Mercury (b) Saturn
(c) Uranus (d) Neptune
- Elements in the modern periodic table are arranged in groups and periods.
(a) 7, 18 (b) 18,7 (c) 17,8 (d) 8, 17
- Graphene is one atom thick layer of carbon obtained from
(a) diamond (b) fullerene
(c) graphite (d) gas carbon
- Radio chemistry deals with
(a) oxidants (b) batteries
(c) isotopes (d) nanoparticles
- The animal without skull is
(a) Acrania (b) Acephalia
(c) Apteris (d) Acoelomate
- Chlorophyllin a leaf is required for
(a) photosynthesis (b) tropic movement
(c) transpiration (d) nastic movement
- The structural and functional unit of the kidney is
(a) villi (b) liver (c) nephron (d) ureter
- Which of the following is transmitted through air?
(a) Tuberculosis (b) Meningitis (c) Typhoid (d) Cholera
- The symbiotic association of fungi and vascular plants is
(a) Lichen (b) Rhizobium (c) Mycorrhizae (d) Azotobacter
- is used to insert attractive text in the slide.
(a) slide Show (b) Word Art (c) Text (d) Header and Footer

PART - B**Answer any seven question. (Question no 22 is compulsory) 7 X 2 = 14**

- Why it is easy to swim in sea water than in river water?
- State Fleming's Left Hand Rule
- Fill in the blanks.**
a. The mirror used in search light is
- b. The radius of curvature of a concave mirror whose focal length is 5cm is
- What is meant by super sonic speed ?

17. Define Sublimation
 18. What are the uses of Plaster of Paris?
 19. What is nematocyst?
 20. Match the following
- | Organ | Elimination |
|-----------|--------------------|
| Skin | a. Urine |
| Lungs | b. Sweat |
| Intestine | c. Carbon dioxide |
| Kidneys | d. Undigested food |

21. What is an adulterant?
 22. Calculate the amount of charge that would flow in 2 hours through an element of an electric bulb drawing a current of 2.5A.

PART - C

Answer any seven questions. (Question no 32 is compulsory) $7 \times 4 = 28$

23. Explain different types of motion.
 24. Differentiate mass and weight.
 25. Explain the Tyndall effect and Brownian movement with a suitable diagram.
 26. State any five features of the modern periodic table.
 27. a) Write all possible isomers of C_4H_{10}
 b) Why are one-time use and throwaway plastics harmful?
 28. List five characteristic features of fishes.
 29. How will you differentiate the different types of transpiration?
 30. Explain the role of food control agencies in India.
 31. List the medicinal importance, of honey.
 32. Find the oxidation number of the elements in the following compounds.
 (a) C in CO_2 (b) Mn in $MnSO_4$

PART - D

Answer all the questions.

$3 \times 7 = 21$

33. a) Explain the construction and working of a hydrometer with a diagram.
 (OR)
 b) Explain how do SONAR works?
 34. a) Explain the postulates of Bohr's atomic model
 b) Draw the structure of oxygen and sulphur.
 (OR)
 c) List down the differences between Ionic and Covalent compounds.
 35. a) Give an account on phylum Arthropoda.
 (OR)
 b) Describe the processes involved in the water cycle.
 c) What is IUCN? What is the vision of IUCN?