

Class : 9Register
Number**COMMON HALF YEARLY EXAMINATION - 2023 - 24****SCIENCE**

Time Allowed : 3.00 Hours]

[Max. Marks : 75

I. Choose the correct answer.

12x1= 12

1. 1 Angstrom (\AA) = -----
a) 10^{-3} m b) 10^{-4} m c) 10^{-10} m d) 10^4 m
2. Clouds float in atmosphere because of their low -----
a) Density b) Pressure c) Velocity d) Mass
3. Resistance of a wire depends on,
a) Temperature b) Geometry c) Nature of material d) All the above
4. The speed of light is maximum in
a) Vacuum b) glass c) diamond
5. The correct electronic configuration of potassium is
a) 2,8,9 b) 2,8,1 c) 2,8,8,1 d) 2,8,8,3
6. Elements in the modern periodic table are arranged in ----- groups and ----- periods.
a) 7,18 b) 18,7 c) 17,8 d) 8,17
7. The hydrated salt of copper sulphate has ----- colour.
a) Red b) White c) Blue d) Black
8. Water Vascular system found in
a) Hydra b) Earthworm c) Starfish d) Ascaris
9. Smooth muscles occur in
a) Uterus b) Artery c) Vein d) All of the above
10. Who is the 'father of Gastric physiology'
a) Lovis Pasteur b) Corona c) William Beaumont d) Charles Darwin
11. World Health Day Celebrated on
a) June 5 b) March 14 c) July 21 d) April 7
12. Diphtheria affects the
a) Lungs b) Throat c) Blood d) Liver

II. Answer any seven (7) questions only Question no 22 is compulsory.

7x2=14

13. Define electric current and give its unit.

14. Fill In the blanks.

- a) In going from a rarer to denser medium, the ray of light bends -----
- b) Who is the father of Fibre optics -----

15. Define sublimation.

16. Draw the structure of sulphur.

17. What are the uses of plaster of paris?

18. Define taxonomy?

19. Draw the structure of stomata.

CH / 9 / Sci / 1

20. Mention any two vital functions of human kidney.
21. Name two common mosquitoes and the diseases they transmit.
22. A racing car has a uniform acceleration of 4ms^{-2} . What distance it cover in 10s after their start?
- III. Answer any 7 questions: (Q.No.32 is compulsory) 7x4=28
23. Differentiate mass and weight.
24. a) State Pascal's law.
b) Why does a helium balloon float in air?
25. Explain two types of transformer.
26. Name the components in each of the following mixtures.
i) Ice cream ii) Lemonade iii) Air iv) Soil
27. State any four features of modern periodic table.
28. Give the tests to identify Acids and bases.
29. List four characteristic features of fishes.
30. List out the differences between mitosis and meiosis.
31. a) Sanjana wants to buy a jam bottle in a grocery shop. What are the things she should observe on the label before purchasing it?
b) Give abbreviations for the following.
i) AGMARK ii) FSSAI
32. Find the oxidation number of the elements in the following compounds.
a) Mn in MnSO_4 b) N in HNO_3
- IV. Answer all the question. 3x7=21
33. a) (i) Write the rules that are followed in writing the symbols of units in SI system.
(ii) Compare speed and velocity.
(OR)
- b) (i) Describe the construction and working of mercury barometer.
(ii) Define Mirror equation.
34. a) i) Explain Tyndall effect and Brownian movement with suitable diagram.
ii) Write the electronic configuration of C and Cl.
(OR)
- b) i) List down the differences between ionic and covalent compounds.
ii) Match the following.
- | | | |
|-------------------------|---|---------------|
| (a) Triads | - | Newlands |
| (b) Alkali metal | - | Calcium |
| (c) Law of octave | - | Henry moseley |
| (d) Modern periodic law | - | Sodium |
| | - | Dobereiner |
35. a) i) Describe the characteristic features of different prochordates.
ii) What are types of cell division.
(OR)
- b) i) Suggest the immunization schedule for a new born body till 12 months of age.
ii) What is a presentation? CH/9/Sci/2