

Class : 9Register
Number**COMMON HALF YEARLY EXAMINATION - 2024 - 25**

Time Allowed : 3.00 Hours]

SCIENCE

[Max. Marks : 75

PART - I

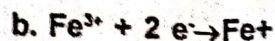
YouTube/ Akwa Academy

12x1= 12

1. Choose the correct answer.
- 1 metric ton is equal to _____
a) 100 quintals b) 10 quintals c) 1/10 quintals d) 1/100 quintals
 - Clouds float in atmosphere because of their low
a) density b) pressure c) velocity d) mass
 - Transformer works on
a) AC only b) DC only c) Both AC and DC d) none
 - The speed of light is maximum in
a) vacuum b) glass c) diamond d) water
 - 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
 - Elements in the modern periodic table are arranged in groups and periods
a) 7, 18 b) 18, 7 c) 17, 8 d) 8, 17
 - compounds have high melting and boiling points.
a) Covalent b) Coordinate c) Ionic d) both b and c
 - The common name of Calcium Oxochloride is -----
a) Common Salt b) Bleaching powder
c) Plaster of paris d) none
 - Aerenchyma is found in
a) epiphytes b) hydrophytes c) halophytes d) xerophytes
 - Transpiration takes place through -----
a) fruit b) seed c) flower d) stomata
 - Food and Adulteration Act was enforced by Government of India in the year -----
a) 1964 b) 1954 c) 1950 d) 1963
 - The organ affected by jaundice is
a) liver b) lungs c) kidney d) brain

PART - II

- II. Answer any SEVEN of the following questions. Question no 22 is compulsory. 7X2=14
- Define least count.
 - Compare speed and velocity
 - State whether true or false. If false, correct the statement.
a) Ammeter is connected in parallel in any electric circuit.
b) Archimedes' principle can also be applied to gases.
 - A few drops of 'Dettol' when added to water the mixture turns turbid. Why?
 - State modern periodic law
 - Identify the following reactions as oxidation or reduction



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19. Match the following.

PHYLUM	EXAMPLES
(A) Coelenterata	(i) Snail
(B) Platyhelminthes	(ii) Starfish
(C) Echinodermata	(iii) Tapeworm
(D) Mollusca	(iv) Hydra

20. Why your doctor advises you to drink plenty of water?

21. What is slide?

22. The speed of light in air is $3 \times 10^8 \text{ ms}^{-1}$ and in glass it is $2 \times 10^8 \text{ ms}^{-1}$. What is the refractive index of glass?

PART - III

III. Answer any SEVEN of the following questions. Question no 32 is compulsory. 7X4=28

23. Explain different types of motion.

24. State the laws of flotation.

25. Differentiate step up and step-down transformer.

26. a) Define Tyndall effect

b) Define Sublimation.

27. Discuss in brief about the properties of coordinate covalent compounds.

28. Write any four uses of bases

29. List out the differences between mitosis and meiosis.

30. What are the effects of consuming adulterated food?

31. a) Expand the following.

i) HIV

ii) WHO

b) Pick out the odd one

i) AIDS, Retrovirus, Lymphocytes, BCG.

ii) Bacterial disease, Rabies, Cholera, Common cold and Influenza

32. Calculate the number of neutrons, protons and electrons: (i) atomic number 3 and mass number 7 (ii) atomic number 92 and mass number 238.

PART - IV

IV. Answer all the questions.

3X7=21

33. a) Derive the equations of motion by graphical method. (OR)

b) i) Differentiate mass and weight.

ii) List the safety features while handling electricity.

34. a) i) Explain the postulates of Bohr's atomic model.

ii) Draw the structure of Sulphur atom.

iii) The valency of Argon is ----- (OR)

b) i) List down the differences between Ionic and Covalent compounds.

ii) NaCl is insoluble in carbon tetrachloride but soluble in water. Give reason.

35. a) i) List five characteristic features of fishes

ii) List the respiratory organs of amphibians. (OR)

b) i) What is nastic movement?

ii) Describe the alimentary canal of man

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