

COMMON HALF YEARLY EXAMINATION - 2025**Standard - IX**Reg.No.

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Time: 3.00 hrs**SCIENCE****Marks:75****Part - I****I Choose the correct answer.****12x1=12**

1. Rulers, Measuring tapes and metre scales are used to measure
a) mass b) weight c) time d) length
2. In current electricity, a positive charge refers to,
a) presence of electron b) presence of proton
c) absence of electron d) absence of proton
3. The Speed of light is maximum in.
a) vacuum b) glass c) diamond
4. The separation of denser particles from lighter particles done by rotation at high speed is called
a) Filtration b) Sedimentation c) decantation d) Centrifugation
5. The term nucleons refers to
a) protons and electrons b) only neutrons
c) electrons and neutrons d) protons and neutrons
6. Bond formed between a metal and non-metal atom is usually _____
a) ionic bond b) covalent bond c) coordinate bond
7. Excretory organ of tape worm is
a) flame cells b) nephridia c) body surface d) solenocytes
8. Aerenchyma is found in
a) epiphytes b) hydrophytes c) halophytes d) xerophytes
9. To prevent the entry of food into the trachea, the opening is guarded by _____
a) epiglottis b) glottis c) hard palate d) soft palate
10. The nutrient required in trace amounts to accomplish various body function is _____
a) carbohydrate b) protein c) vitamin d) fat
11. Diptheria affects the
a) lungs b) throat c) blood d) liver
12. Which key should be pressed to run a slide show?
a) F1 b) Tab c) F5 d) F2

Part - II**II Answer any seven questions. (Q.No.22 compulsory)****7x2=14**

13. Define Velocity.
14. What are electric lines of force?
15. State Fleming's Left Hand Rule,
16. Fill in the blanks
a) _____ isotope is used in the nuclear reactors.
b) Example of liquid metal is _____

(2)

IX Science

17. Write a note on different types of bonds.
18. What is a neutralization reaction? Give an example.
19. List two characteristic features of fishes.
20. Say True (or) False
 - a) Epithelial tissue is protective tissue in animal body.
 - b) Phloem is made up of tracheids.
21. What is a presentation?
22. If a man has a mass 50kg on the earth, then what is his weight?

Part - III**III Answer any seven questions. (Q.No.32 compulsory)****7x4=28**

23. Compare speed and velocity.
24. a) Define electric field.
b) Define electric current and give its unit.
25. State the direction of incident ray which after reflection from a spherical mirrors retraces its path. Give reason for your answer.
26. a) Define sublimation.
b) A few drops of "Dettol" when added to water the mixture turns turbid. Why?
27. State any four features of modern periodic table.
28. a) Define aquaregia.
b) What are the various uses of Aquaregia.
29. Match the following.

a) Coelenterata	-	i) Snail
b) Platyhelminthes	-	ii) Starfish
c) Echinodermata	-	iii) Tapeworm
d) Mollusca	-	iv) Hydra
30. Differentiate between tropic and Aastic movements.
31. Give abbreviations for the following:

i) ISI	ii) FPO	iii) AGMARK	iv) FCI
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32. Find the oxidation number of the elements in the following compounds.

i) C in CO_2	ii) Mn in MnSO_4
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Part - IV**IV Answer all the questions. If necessary draw the diagram.****3x7=21**

33. a) How will you find the thickness of a one rupee coin?
(OR)
b) Explain the construction and working of a hydrometer with diagram.
34. a) Explain Tyndall effect and Brownian movement with suitable diagram.
(OR)
b) i) Write any four uses of bases.
ii) Sulphuric acid is called king of chemicals. Why is it called so?
35. a) Explain the role of food control agencies in India.
(OR)
b) Describe the role of microbes in agriculture and industries.

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