

COMMON ANNUAL EXAMINATION - 2023

C

Standard IX

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SCIENCE

Time : 2.30 hrs

Part - I

Marks : 75

12 x 5 = 60

I. Choose the correct answer:

1. Clouds float in atmosphere because of their low _____
a) density b) pressure c) velocity d) mass
2. Heating effect of current is called _____
a) joule heating b) coulomb heating
c) voltage heating d) ampere heating
3. A device in which the loss of heat due to conduction, convection and radiation is minimized is _____
a) solar cell b) solar cooker c) thermometer d) thermos flask
4. The sound waves travel faster in _____
a) liquids b) gases c) solids d) vacuum
5. Bond formed between a metal and non-metal atom is usually _____
a) ionic bond b) covalent bond
c) co-ordinate bond d) co-ordinate covalent bond
6. The hydrated salt of copper sulphate has _____ colour.
a) red b) white c) blue d) green
7. Carbon forms large number of organic compounds due to _____
a) allotropy b) isomerism c) tetravalency d) catenation
8. Radio chemistry deals with _____
a) oxidants b) batteries c) isotopes d) nano-particles
9. The animal without skull is _____
a) acrania b) acephalia c) apteria d) arachnida
10. Transpiration takes place through _____
a) fruit b) seed c) flower d) stomata
11. _____ is the method of growing plants without soil.
a) horticulture b) hydroponics c) pomology d) none of these
12. The atmospheric carbon-di-oxide enters into the plants through the process of _____
a) photosynthesis b) assimilation c) respiration d) germination

Part - II

7 x 2 = 14

II. Answer any 7 questions. (Q.No.22 is compulsory)

13. State True or False. If false correct the statement.
i) The S.I. unit of electric current is kilogram.
ii) The reason for brilliance of diamonds is total internal reflection of light.
14. State Pascal's Law.
15. What is a satellite? What are the two types of satellites?
16. Identify the following reactions as oxidation or reduction.
i) $\text{Na} \rightarrow \text{Na}^+ + \text{e}^-$ ii) $\text{Fe}^{3+} + 2\text{e}^- \rightarrow \text{Fe}^2+$
17. Differentiate graphite and diamond.
18. Match the following :
i) Element - Settles down on standing
ii) Compound - Pure substance
iii) Colloid - Made up of atoms
iv) Suspension - Made up of molecules

(2)

IX Science

9. Fill in the blanks :



10. Pick out odd one:

- i) AIDS, Retrovirus, Lymphocytes, BCG
 - ii) Bacterial disease, Rabies, Cholera, Common cold, Influenza
21. i) _____ is preservative in honey.
 ii) The longest part of alimentary canal is _____
22. If 25 C of charge is determined to pass through a wire of any cross section in 50s. What is the measure of current.

Part - III

III. Answer any 7 questions. (Q.No.32 is compulsory)

7 x 4 = 28

23. Differentiate mass and weight.
24. Pick out the concave and convex mirror from the following and tabulate them.
- i) Rear view mirror
 - ii) Dentist's mirror
 - iii) Torch light mirror
 - iv) Mirrors in shopping malls
25. List the safety features while handling electricity.
26. Define Aquaregia. What are the various uses of aquaregia.
27. Calculate the number of neutrons, protons and electrons.
- i) Atomic number 3 and the mass number 7
 - ii) Atomic number 92 and mass number 238
28. i) Write all possible isomers of C_4H_{10}
 ii) What is Forensic chemistry related to?
29. Expand the abbreviations : i) ISI ii) AGMARK iii) ORS iv) WHO
30. What are uses of recycled water?
31. Outline the flow chart of phylum chordata.
32. Draw and label the structure of neurone.

Part - IV

IV. Answer in detail :

3 x 7 = 21

33. a) Explain different types of motion.
 (OR)
 b) What are the changes of state in water? Explain.
34. a) State the features of modern periodic table.
 (OR)
 b) Name various food additives and explain their functions.
35. a) Suggest the immunization schedule for a newborn baby till 12 months of age. Why it is necessary to follow the schedule.
 (OR)
 b) Define mushroom culture. Explain the mushroom cultivation methods.

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