

T COMMON ANNUAL EXAMINATION - 2025

Standard - IX

Time : 3.00 hrs

SCIENCE

Marks: 75

Part - I

I. i) Choose the most suitable answer. ii) Answer all the questions. $12 \times 1 = 12$

- 1) Rulers, measuring tapes and metre scales are used to measure
a) mass b) weight c) time d) length
- 2) The size of an air bubble rising up in water _____
a) decreases b) increases c) remains same d) may increase or decrease
- 3) Calorie is the unit of _____
a) heat b) work c) temperature d) food
- 4) Who proposed the heliocentric model of the universe?
a) Tycho Braha b) Nicolaus Copernicus c) Ptolemy d) Archimedes
- 5) The separation of denser particles from lighter particles done by rotation at high speed is called _____
a) Filtration b) centrifugation c) decantation d) centrifugation
- 6) Oxidising agents are also called as _____ because they remove electrons from other substances.
a) electron donors b) electron acceptors c) sharing of electrons
- 7) The age of a dead animal can be determined by using isotope of _____
a) Carbon b) Iodine c) Phosphorus d) Oxygen
- 8) Which of the following is not a salivary gland?
a) Sublingual b) Lachrymal c) submaxillary d) Parotid
- 9) The Primary organ infected during tuberculosis is _____
a) bone marrow b) intestine c) spleen d) lungs
- 10) _____ is the method of growing plants without soil
a) Horticulture b) Hydroponics c) Pomology d) None of these
- 11) The atmospheric Carbon dioxide enters into the plants through the process of _____
a) Photosynthesis b) assimilation c) respiration d) decomposition
- 12) _____ is used the insert attractive text in the slide
a) slide show b) Text c) Header and Footer d) Word Art

Part - II

II. Answer any seven questions. Question number 22 is compulsory. $7 \times 2 = 14$

- 13) Compare Speed and Velocity.
- 14) Name any two appliances which work under the principle of heating effect of current.
- 15) Write the spherical mirror formula and explain the meaning of each symbol used in it.
- 16) Write the electronic configuration of K and Cl.
- 17) What are the uses of Plaster of Paris?
- 18) Write all Possible isomers of C_2H_6O .
- 19) Match the following:

1. Coelenterata	-	Snail
2. Platyhelminthes	-	Starfish
3. Echinodermata	-	Tapeworm
4. Mollusca	-	Hydra
- 20) Define Transpiration.
- 21) Give abbreviations for the following: a) ISI b) FPO c) AGMARK d) FCI

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(2)

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- 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 - III

Answer any seven questions. Question number 32 is compulsory.

7×4=28

- 23) Differentiate mass and weight.
 24) a) State Fleming's Left Hand Rule.
 b) Why do people wearing clothes during summer.
 25) a) What is meant by Supersonic speed?
 b) What is a Satellite? What are the two types of Satellites?
 26) a) Define Sublimation.
 b) What are groups and periods in the modern Periodic table?
 27) a) NaCl is soluble in Carbon tetrachloride but soluble in water. Give reason.
 b) Differentiate graphite and diamond.
 28) a) What is Radio Carbon Dating?
 b) i) Painkiller drugs are called _____
 ii) _____ is a chemical used in finger print analysis.
 29) a) What is complex tissue? Name the various kinds of complex tissues.
 b) Mention any two vital functions of human kidney.
 30) a) What is an adulterant?
 b) Define: Bacteriophages.
 31) List the medicinal importance of honey.
 32) Complete the following table.

Atomic Number	Mass Number	Number of Neutrons	Number of Protons	Number of Electrons	Name of the element
9		10			
16		16			
	24			12	magnesium
	2		1		
	1	0	1		

Part - IV

Answer all the questions. (Draw diagram wherever necessary)

3×7=21

- 33) a) Explain different types of motion. (4)
 b) Why it is easy to swim in sea water than in river water. (2)
 c) What is the speed of light in vacuum? (1) [or]
 a) State Kepler's law. (3)
 b) List the applications of sound. (4)
 34) a) Write the differences between elements and compounds and give an example for each. (4)
 b) Write any four uses of acids. (3) [or]
 a) What are the chemical reactions of Carbons. (5)
 b) The soil pH of a crop land is 5. What kind of fertilizers should be used in that land. (2)
 35) a) List five characteristic features of fishes. (5)
 b) Fill in the blanks:- $6\text{CO}_2 + \text{_____} \xrightarrow[\text{Chlorophyll}]{\text{Sunlight}} \text{_____} + \text{_____} + 6\text{O}_2 \uparrow$ [or]
 a) Suggest the immunization schedule for a new born baby till 12 months of age. Why it is necessary to follow the schedule? (5)
 b) State whether True or false. If false correct the statement. (2)
 i) Nitrogen is a greenhouse gas.
 ii) Bats are the only mammals that can fly.
