

* COMMON QUARTERLY EXAM - 2024

Standard - IX

Time : 3.00 hrs

SCIENCE

Marks: 75

I. Note: i) Answer all the questions. ii) Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer:- 12×1=12

- 1) Which among the following is not a device to measure mass?
a) Spring balance b) beam balance c) Physical balance d) digital balance
- 2) The centrifugal force is _____
a) a real force b) the force of reaction of centripetal force
c) a virtual force d) directed towards the centre of the circular path
- 3) The size of an air bubble rising up in water _____
a) decreases b) increases
c) remains same d) may increase or decrease
- 4) When we mix a drop of ink in water we get a _____
a) heterogeneous mixture b) compound mixture
c) homogeneous mixture d) suspension
- 5) The term nucleons refer to _____
a) Protons and Electrons b) Only Neutrons
c) Electrons and Neutrons d) Protons and Neutrons
- 6) Noble gases belong to _____ group of the periodic table
a) 15 b) 18 c) 16 d) 14
- 7) Mesoglea is present in _____
a) Porifera b) Coelenterata c) Annelida d) Arthropoda
- 8) Aerenchyma is found in _____
a) Epiphytes b) Hydrophytes c) Halophytes d) Xerophytes
- 9) The bending of root of a plant to response to water is called _____
a) thigmonasty b) Phototropism c) Hydrotropism d) Photonasty
- 10) Millepedes means thousand legs. But most of them have only about a _____ legs.
a) 30 b) 100 c) 500 d) 50
- 11) Epithelial cells living the gut last only about _____ days
a) 6 b) 4 c) 5 d) 7
- 12) _____ is used to insert attractive text in the slide
a) slide show b) Word Art c) Text d) Header and Footer

II. Note: Answer any 7 of the following questions:- (Q.No.22 is compulsory) 7×2=14

- 13) Define least count of any device.
- 14) Distinguish distance and displacement.
- 15) State Pascal's law.
- 16) How will you separate a mixture containing saw dust, naphthalene and iron filings
- 17) Assertion and Reason type questions:-
Statement: Elements in a group generally possess similar properties but elements along a period have different properties.
Reason: The difference in electronic configuration makes the element differ in their chemical properties along a period
a) Statement is true and reason explains the statement
b) Statement is false but the reason is correct

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- 18) List the respiratory organs of amphibians.
 19) State whether true or false. If false, correct the statement.
 "Canal system is seen in coelenterates"
 20) What is complex tissue? Name the various kinds of complex tissues.
 21) Draw the following diagram and label any two parts from the following:
 (Guard cell, cell wall, nucleus, stomata, vacuole, chloroplast)



- 22) Find the mass of an object weighing 980N.

III. Note: Answer any 7 of the following questions:- (Q.No.32 is compulsory) 7×4=28

- 23) Write any four rules that are followed in writing the symbols of units in SI system.

- 24) a) What is meant by uniform circular motion?

b) Match the following:-

- | | | |
|---------------------------------|---|-------------|
| i) Density | - | hpg 3 |
| ii) 1g wt | - | mass/volume |
| iii) Pascal's law | - | 980 dyne |
| iv) Pressure exerted by a fluid | - | pressure 2 |

- 25) State the laws of flotation.

- 26) How are homogeneous solutions different from heterogeneous solution? Explain with examples.

- 27) Complete the following table:

Atomic No.	Mass No.	Number of Neutrons	Number of Protons	Number of electrons	Name of the element
9	9	10	9	9	-
16	16	16	16	16	-

- 28) State any four features of modern periodic table

- 29) List four characteristic features of fishes.

- 30) a) Define taxonomy

b) How are the limbs of the birds adapted for avian life?

- 31) Photosynthesis converts energy x into energy y?

a) What are x and y?

b) Green plants are autotrophic in their mode of nutrition. Why?

- 32) a) Mention the most abundant muscular tissue found in our body.

b) Which are not true cells in the blood? Why?

f. Note: Answer all the questions. Draw a diagram wherever necessary: 3×7=21

- 33) How will you find the thickness of a one rupee coin? [or]

Derive the equation of motion by graphical method.

- 34) Write the difference between elements and compounds and given an example for each. [or]

State the Gay Lussac's law of combining volumes. Explain with an illustration.

- 35) List out the difference between mitosis and meiosis. [or]

i) Differentiate between tropic and nastic movements

