



COMMON QUARTERLY EXAMINATION - 2023

Standard - IX
SCIENCE

Reg.No.

Marks: 75

Time: 3.00 hrs.

PART - I

I. Answer all the questions:

12×1=12

1. Rulers, Measuring tapes and meter scales are used to measure
 - a) Mass
 - b) Weight
 - c) Time
 - d) Length
2. _____ consists of 'U' shape metal frame.
 - a) Screw gauge
 - b) Vernier Caliper
 - c) Beam balance
 - d) Spring balance
3. Negative acceleration is called _____.
 - a) Retardation
 - b) Momentum
 - c) Gravity
 - d) Centripetal force
4. Clouds float in atmosphere because of their low
 - a) Density
 - b) Pressure
 - c) Velocity
 - d) Mass
5. When we mix a drop of ink in water get a _____.
 - a) Heterogeneous Mixture
 - b) Compound
 - c) Homogeneous Mixture
 - d) Suspension
6. Change in the number of neutrons in an atom changes it to
 - a) An ion
 - b) an isotope
 - c) an isobar
 - d) another element
7. Elements in the modern periodic table are arranged in _____ groups and _____ periods.
 - a) 7, 18
 - b) 18, 7
 - c) 17, 8
 - d) 8, 17
8. Identify the animal having four chambered heart.
 - a) Lizard
 - b) snake
 - c) Crocodile
 - d) Calotes
9. Which of the following is a Complex Tissue?
 - a) Parenchyma
 - b) Collenchyma
 - c) Xylem
 - d) Sclerenchyma
10. Chlorophyll in a leaf is required for _____.
 - a) Photosynthesis
 - b) trophic Movement
 - c) Transpiration
 - d) Nastic Movement
11. The fibre consists of _____.
 - a) Parenchyma
 - b) Sclerenchyma
 - c) Collenchyma
 - d) None of above
12. _____ is a structured delivery of information.
 - a) Slide show
 - b) Page
 - c) Word Art
 - d) Presentation

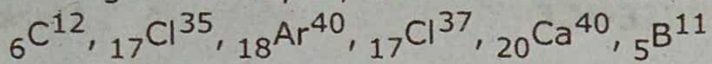
PART - II

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

13. Compare speed and velocity.
14. Write the units which are used to measure long distance.
15. Match the following:

1. Density	-	hpg
2. Pascal's law	-	Milk
3. Pressure expressed by a fluid	-	Mass / Volume
4. Lactometer	-	Pressure
16. Which of the following are pure substances?
Ice, Milk, Iron, Hydrochloric acid, Mercury, Brick and Water

17. Arrange in Isotopes, Isobars and Isotones:



18. What are groups and periods in the modern periodic table?

19. State whether true or False, If false correct the statement:

a) Canal system is seen in coelenterates.

b) Fishes have two chambered heart.

20. Draw a neuron and label the parts?



21. What is Libreoffice Impress?

22. If a man has a mass 50kg on the earth, then what is his weight?

PART - III

III. Answer any 7 of the following questions (Q.No.32 is Compulsory)

7×4=28

23. a) Match the following:

- | | | |
|-----------------|---|----------|
| i) Length | - | Kelvin |
| ii) Mass | - | Metre |
| iii) Time | - | Kilogram |
| iv) Temperature | - | Second |

b) Write SI units for the fundamental quantity.

24. a) Distinguish distance and displacement.

b) Speed is a _____ quantity where as velocity is a _____ quantity.

(Vector, Scalar)

25. a) State whether true or False, If false correct the statement.

i) Archimedes principle can also be applied to gases.

ii) Hydraulic press is used in the extraction of oil from oil seeds.

b) State Pascal's Law.

26. Write the differences between Mixture and compound?

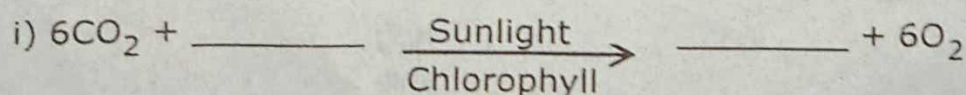
27. Explain the Postulates of Bohr's atomic model?

28. State any five features of modern periodic table?

29. List five characteristic features of fishes?

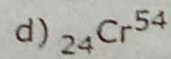
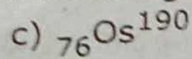
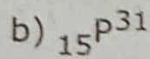
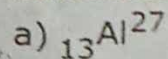
30. Name the components of Xylem and Phloem?

31. a) Fill in the blanks:



ii) Define transpiration.

32. Calculate the number of neutrons in the following atoms.



b) Density of mercury is 13600Kg m^{-3} . Calculate the relative density.



PART - IV

3×7=21

III. Answer all the questions:

33. a) i) Explain different types of motion. (5)
 ii) Differentiate mass and weight? (2)

(OR)

- b) i) Explain the construction and working of a hydrometer with diagram. (5)
 ii) State the laws of flotation. (2)
34. a) i) Write the differences between elements and compounds and give an example for each. (5)
 ii) Draw the atomic structure of Mg. (2)

(OR)

- b) i) Match: (3)

- | | | |
|-------------------------|---|---------------|
| a) Tridas | - | Newlands |
| b) Alkali metal | - | Calcium |
| c) Law of Octaves | - | Henry Moseley |
| d) Alkaline earth metal | - | Sodium |
| e) Modern periodic Law | - | Dobereiner |

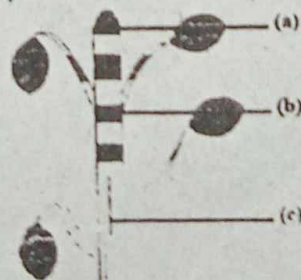
- ii) Pick the odd one out and write the reason. (2)

- a) Copper, brass, gold, ornament, bronze
 b) Bromine, carbon, hydrogen, aluminium

- iii) Complete the following table: (2)

S.No.	Symbol	Atomic No.	Electronic configuration
1	He	2	?
2	Ne	?	2, 8
3	Ar	?	2, 8, 8
4	Na	11	?

35. a) i) Draw and shoot apex and label the meristems parts. (2)



- ii) What is Chlorophyll? (2)

- iii) Photosynthesis converts energy X into energy Y. (3)

- a) What are X and Y?

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

(OR)

- b) i) Give an account on Phylum Arthropoda? (5)

- ii) Write the difference between Xylem and Phloem. Any two points. (2)