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# **QUARTERLY EXAMINATION - 2025**

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SCIENCE	
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9 -	SCIE	NCE					
Time	e: 2-30 Hours		Marks: 75				
I 1. 2.	(PART Choose the correct answer.  Which among the following is not a deta) Spring balance b) Beam balance The centrifugal force is a) a real image b) the force of react c) a virtual force d) directional toward The size of an air bubblesrising up in value a) decreases b) increases c) remainstrates.	evice to weight? c) Physical balance ionof centripetal force ds the center ofthe cir	cular path				
4.	The separation of denser particles from lighter particles done by rotation of high						
	speed is called———						
5.	a) filteration b) sedimentation The term nucleons refer to	c) decantation	d) centrifugation				
J.	a) protons and neutrons c) electrons and neutrons	b) only neutrons d) protons and neut	rons				
6.	Elements in the modern periodic table	e are arranged in	groups and				
•	periods.						
7.	a) 7,18 b) 18,7	c) 17,8	d) 8,17				
, ·	Excretory organ of tapeorm isa) flame cell b) nephridia	c) body surface	d\				
8.	Aerenchyma is found in	c) body surface	d) solenocytes				
*	a) epiphytes b) hydrophytes	c) halophytes	d) xerophytes				
9.	Roots growing downwards into soil is		.,, tes				
,		b) Negative geotropi	sm				
10	c) Negative phototropism	d) Positive geotropis	<b>m</b> ;				
10.	Cholorophyll in a leaf required fora) photosynthesis	— b\ b==='================================					
	c) transpirátion	<ul><li>b) tropic movement</li><li>d) nastic movement</li></ul>					
11.	Nerve cell does not contains	dy mastic movement					
	a) axon b) nerve endings	c) tendons	d) dentrites				
12.	Air sacs and pneumatic bones are seen	in					
	a) fish b) frog	c) bird	d) bat				
II.	Answer any seven of the fellowing						
13. 14. 15.	Answer any seven of the following Define least count of any device. Distinguish distance and displacement. State Pascal law.		7 x2=14				
16.	Fill in the blanks.						
6	a)Noble gases belongs to group of b) Example for liquid metal is	of the periodic table.	1 72 17				

- 17. Name the components in each of the following mixture i) Ice cream ii) Air
- 18. Match the following

a. Dalton - Hydrogen atom model

b. Chadwick - Discovery of nucleus

c. Rutherford - First atomic theory

d. NeilisBohr - Plum pudding model

Discovery of neutrons

- 19. Why are frogs said to be amphibians?
- 20. Define transpiration

21. Fill in the blank.  $6CO_2 + ---$  sunlight  $---+6O_2$  Chlorophyll

22. Why should gametes are produced by meiosis during sexual reproduction?

#### PART -C

## III. Answer any seven of the following (question no 32 is compulsory)

23. a) Differentiate mass and weight.

7X4 = 28

- b) What is fundamental quantities? Give examples.
- 24. a) Why it is easy to swim in sea water than in river water?
  - b) What is meant by atmospheric pressure.
- 25. Draw the structure of oxygen and sulphur atoms.
- 26. -What are nucleons? How many nucleons are present in Phosphorus? Draw its structure.
- 27. What is valency? Write the electronic configuration of K and Cl.
- 28. a) What is nematocyst? b) state true or false. If false correct the statement.
  - i) Bipinnaria is the larva of mollusca. ii) meiosis occurs in germ cells
- 29. Differentiate :xylum and phloem.
- 30. i) What is complex tissue?
  - ii) Name the various kinds of complex tissues.
- 31. List the five characterstic features of fishes.
- 32. a) Calculate the number of neutrons, protons and electrons
  - 1. 76 Os 190 2. 15 P 31
  - b) what are metalloids? Give an example.

### (PART-D)

## IV. Answer all Questions.

 $7 \times 3 = 21$ 

- a) Explain different types of motion with example.
  - b) Compare speed and velocity. (OR)
  - a) State the laws of reflection.
  - b) How does a fish manage to rise up and move down in water?
- 34. Explain the postulates of Bhor's atomic model. (OR)

  Write the differences between elements and compounds and give an example for each.
- 35. Give an account on phylum Arthropoda. (OR)
  - a) List out the differences between mitosis and meiosis.
  - b) State the significance of Meiosis.

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