# HALF YEARLY EXAMINATION - 2023

Class: 9 Time: 2-30 Hours

SCIENCE

Reg.No	
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Marks: 75

a) density b) pressure c) velocity d) mass  3. In an electrolyte the current is due to the flow of a) electrons b) positive ions c) both (a) and (b) d) neither (a) nor (b)			, P	PART - I			
a) 100 kg b) 1000kg c) 10 kg d) 1/10 kg  2. Clouds float in atmosphere because of their low a) density b) pressure c) velocity d) mass  3. In an electrolyte the current is due to the flow of a) electrons b) positive ions c) both (a) and (b) d) neither (a) nor (b)  4	I) C						
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4	3.	In an electrolyte the	current is due to the flo	w of			
a) Concave mirror b) plane mirror c) convex mirror d) Convex lens  5		a) electrons	b) positive ions	c) both (a) and (b)	d) neither (a) nor (b)		
5	4.	is used as re	eflectiors in torchlight				
a) 1 b) 3 c) 2 d) 4  6. The number of neutrons present in 13Al <sup>27</sup> is		a) Concave mirror	b) plane mirror	c) convex mirror	d) Convex lens		
6. The number of neutrons present in "AI2" is	5.	atom (s)	are present in one molec	cule of oxygen.			
a) 13 b) 14 c) 27 d) 15  7. Example for liquid metal is		a) 1	b) 3	c) 2	d) 4		
7. Example for liquid metal is	6.	The number of neut	trons present in 13AI <sup>27</sup> is				
a) Bromine b) Sodium c) Mercury d) Lead  8. The element that would form cation by losing electrons in a chemical reaction is					d) 15		
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a) F b) O c) Na d) S  9. Poikilothermic organisms are a) Fish, Frog, Lizard, man b) Fish, Frog, Lizard, Cow c) Fish, Frog, Lizard, snake d) Fish, Frog lizard, Crow  10. Which of the following is a complex tissue? a) Parenchyma b) Collenchyma c) Xylem d) Sclerenchyma  11. Which of the following is not a part of female reproductove system? a) ovary b) Uterus c) Testes d) Fallopian tube  12. The organ affected by jaundice is		a) Bromine	b) Sodium	c) Mercury	d) Lead		
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12. The organ affected by jaundice is	11.	Which of the follow	ving is not a part of fema	ale reproductove system?			
a) Kidney b) Heat c) liver d) Spleen  PART - II  II) Answer any 7 Questions: Q.No.22 Compulsory 7x2=14  13. Define least count of any device. 14. what do you understand about negative acceleration?		a) ovary	b) Uterus	c) Testes	d) Fallopian tube		
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			-				
15. Define electric current and given its unit				eleration?			
16. What are nucleons?				The state of the			

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17. Fill in the following table according to the type of bonds formed in the given molecule CaCl., H.O., CaO, CO, KBr, HCl, CCl., HF, CO.

lonic bond	Covalent bond	coordinate Covalent bond
		and the state of t
*		

- 18. State: Modern periodic law,
- 19. What are the effects of consuming adulterated food?
- 20. Differentiate: Absorption and Assimilation
- 21. Write the Significane of meiosis cell division
- 22. The speed of light in air is  $3x10^8$  m/s and in glass it is  $2x10^8$  m/s. what is the refractive index of glass?

### PART - III

## III) Answer any 7 Questions. Q.No.32 Compulsory.

7x4 = 28

- 23. Explain different types of motion.
- 24. State the laws of flotation
- 25. What are the applications of Electromagnets?
- 26. Write notes on chromatography
- 27. What conclusious were made from the observations of Gold foil experiment?
- 28. Define: oxidising agent and reducing agent and Give an example for each type
- 29. Write about the elements of xylem.
- 30. Enumerate the functions of Liver.
- 31. i) What is the way of spreading dengue? write its symptoms.
  - ii) Can you get pregnant with no fallopian tubes? Clarify,
- 32. An athlete completes one round of a circular track of diameter 200m in 40s. What will be the distance covered and the displacement at the end of 2m and 20s?

### PART - IV

# IV) Answer All the questions (Draw diagram wherever necessary). 3x7=21

- 33. a) i)Explain the construction and working of a hydro meter with diagram
  - ii) State Fleming's left hand rule.

### [OR]

- b) i)Draw ray diagrams to show how the image is formed using a concave mirror, when the position of object is i)at C ii) between C and F iii) between F and P of the mirror
  - ii) Mention the position and nature of image in each case.
- 34. a) i) Discuss in brief about the properties of Ionic compounds
  - ii) Write the electronic contiguration of K and Cl

#### ORI

- b) i) Give the tests to identify Acids and Bases
  - ii) Find the oxidation number of Mn in KMnO<sub>4</sub>
- 35. a) i) Explain the different types of transpiration?
  - ii) Differentiate between flat worms and round worms.

### OR

- b) i) Differentiate: Macronutrients from Micronutrients
  - ii) Describe the alimentary canal of man.

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