

SECOND MID TERM TEST - 2023

SCIENCE

STD - IX

TIME : 1.30 Hrs

92-32
MARKS : 50**I. Choose the correct answer.**

10 x 1 = 10

1. Electroplating is an example for
a) heating effect b) chemical effect c) flowing effect d) Magnetic effect
2. Electric field lines from positive charge and in negative charge.
a) start, start b) start, end c) end, start d) end, end
3. The unit of magnetic flux density is
a) weber b) weber / metre c) weber / metre² d) weber, metre²
4. Which of the following converts electrical energy into mechanical energy?
a) Motor b) Battery c) Generator d) switch
5. Elements with stable electronic configurations have eight electrons in their valence shell. They are
a) halogens b) Metals c) noble gases d) non metals
6. Number of valence electrons in carbon is
a) 2 b) 4 c) 3 d) 5
7. Stomach of human beings mainly digests
a) Carbohydrates b) proteins c) fat d) sucrose
8. The structural and functional unit of the kidney is
a) Villi b) liver c) nephron d) ureter
9. The nutrient required in trace amounts to accomplish various body functions is
a) Carbohydrate b) protein c) vitamin d) fat
10. An internal factor responsible for spoilage of food is
a) wax coating b) contaminated utensils
c) moisture content in food d) synthetic preservatives

II. Answer any seven questions. Q.No. 20 compulsory.

7 x 2 = 14

11. Match the following :

1. Electric charge - Volt 2
2. Potential difference - ampere 4
3. Resistance - Coulomb 1
4. Electric Current - Ohm 3

12. State Flemings right hand rule.**13. State whether true or false. if false correct the statement**

- a) A generator converts mechanical energy into electrical energy. T
- b) Flemings Left hand rule is also known as Dynamo rule. F

14. NaCl is insoluble in CCl₄. But soluble in water. Give reason.**15. Complete the table.**

Element	Atomic number	Electron Distribution	Valence electrons
Boron	5	2, 3	3
Oxygen	8	2, 6	6

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16. Why do we sweat?

17. Fill in the blanks :

- a) Bile secreted by liver is stored temporarily in Gallum
 b) The largest cell in the human body of a female is Ovum

18. What is an adulterant?

19. Fill in the blanks with suitable answers :

Vitamins	Dietary source	Deficiency Disease
a)	Papaya	Night Blindness
b) Calciferol	Rickets

20. The current flowing through a lamp is 0.24. If the lamp is switched on for one hour, what is the total electric charge that pass through the lamp?

III. Answer any 3 of the following questions. Q.No.25 is compulsory. $3 \times 4 = 12$

21. a) A bird sitting on a high power electric line is still safe. How?

b) Can electroplating be possible with alternating current.

22. a) List the main parts of an electric motor.

b) Differentiate step up and step down transformer.

23. Differentiate the following : a) Incisors and Canines b) Kwashiorkor from Marasmus

24. Give the abbreviations for the following. 1. ISI 2. FPO 3. AGMARK 4. FCI

25. Find the oxidation number of the following elements. a) C in CO_2 b) N in HNO_3

IV. Answer in details

$2 \times 7 = 14$

26. Explain the principle, construction and working of a DC motor? (OR)

List down the differences between Ionic and Covalent compounds.

27. Describe the alimentary canal of man. (OR)

a) which day is world food day?

b) What are the effects of consuming adulterated food?

c) Differentiate macro nutrients from Micro nutrients

d) Name any two naturally occurring toxic substances in food.

24) \rightarrow Indian Standard Institution
 \rightarrow Fertil process
 \rightarrow Agricultural marketing
 \rightarrow Food of India