

Chennai

Class : 9

Register Number

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SECOND MID TERM TEST - 2022 - 23
SCIENCE

Time Allowed : 1.30 Hours]

[Max. Marks : 50

PART - I

I. Choose the correct answer.

9x1=9

1. In current electricity, a positive charge refers to .
 - a) Presence of electron
 - b) Presence of proton
 - c) absence of electron
 - d) absence of proton
2. Heating effect of current is called
 - a) Joule heating
 - b) coulomb heating
 - c) voltage heating
 - d) Ampere heating
3. Transformer works on
 - a) AC only
 - b) DC only
 - c) Both AC and DC
 - d) None of the above
4. Number of Valence electrons in carbon is
 - a) 2
 - b) 4
 - c) 3
 - d) 5
5. Covalent bond is formed by
 - a) transfer of electrons
 - b) sharing of electrons
 - c) sharing a pair of electrons
 - d) none of the above
6. Bile helps in the digestion of
 - a) Proteins
 - b) Sugar
 - c) fats
 - d) carbohydrates
7. Which of the following is not a constituent of sweat?
 - a) Urea
 - b) Protein
 - c) Water
 - d) Salt
8. The nutrient required in trace amounts to accomplish various body function is _____.
 - a) Carbohydrate
 - b) protein
 - c) vitamin
 - d) fat
9. Food and adulteration act was enforced by Government of India in the year _____.
 - a) 1964
 - b) 1954
 - c) 1950
 - d) 1963

PART - II

II Answer in two or three sentences. Answer any four. Qn. No. 15 is compulsory.

4x2=8

10. Match the following:

- | | | |
|--------------------------|---|---------------------------------|
| i) Electric charge | - | a) Volt |
| ii) Potential difference | - | b) Ohm |
| iii) Electric field | - | c) Coulomb |
| iv) Resistance | - | d) Newton coulomb ⁻¹ |

11. State Fleming's left hand rule.

12. Name the different types of bonds.

CH / 9 / Sci / 1

13. Fill in

- a) The longest part of alimentary canal is _____.
- b) The largest cell in the human body of a female is _____.

14. Name any two naturally occurring toxic substances in food.

15. Calculate the amount of charge that would flow in 2 hours through an element of an electric bulb drawing a current of 2.5 A.

PART - III

III Answer any three questions briefly. Qn.No. 20 is compulsory.

3x4=12

16. a) Define electric current.
b) Give its unit.
c) Name the instrument used to measure the electric current.
17. Differentiate step up and step - down transformer.
18. a) Mention any two vital function of human kidney.
b) What is micturition?
19. Write any one function of the following minerals.
a) Calcium b) Sodium
c) Iron d) Iodine
20. Find the oxidation number of the elements in the following compounds.
a) Mn in $MnSO_4$
b) S in H_2SO_4

PART - IV

IV answer in detail.

3x7=21

21. a) i) How are the home appliances connected in general, in Series or parallel give reason.
ii) List any four safety features while handling electricity.
(OR)
b) Explain the principle, construction and working of a dc motor.
22. a) List down the differences between Ionic and Covalent compounds.
(OR)
b) What is Ionic bond? Explain the formation of NaCl with a neat diagram.
23. a) Describe the alimentary canal of man.
(OR)
b) How are vitamins useful to us? Tabulate the sources, deficiency diseases and symptoms of fat soluble vitamins.

CH / 9 / Sci / 2