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Time : 2 Hours

CHEMISTRY (Vocational)

Subject Code

V	4	2	9	1
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Total No. of Questions : 23 (Printed Pages : 4)

Maximum Marks : 50

- INSTRUCTIONS :**
- (i) There are *four* sections in the question paper (A, B, C & D) consisting of **23** questions.
 - (ii) Figures to the right indicate marks allotted to each question.
 - (iii) Write the number of each question clearly on the answer-book.
 - (iv) Non-scientific and non-programmable calculators are allowed.

SECTION A**Question Nos. 1-4 : Choose the appropriate alternative. (MCQ)****Question Nos. 5 & 6 : Answer in a one word/phrase or figure.****Question Nos. 7 & 8 : Answer in one sentence.**

1. Fertilizer which contains only one plant nutrient as the major nutrient is called 1
- Complex fertilizer
 - Liquid fertilizer
 - Mixed fertilizer
 - Straight fertilizer

2. Organic compounds with a ring structure that are made up of element, such as N, O, or S in addition to carbon is called 1
- Homocyclic compounds
 - Heterocyclic compounds
 - Acyclic compounds
 - Aromatic compounds
3. Methyl eugenol trap is effective against 1
- Butterfly
 - Rice moth
 - Fruit fly
 - Hairy caterpillar
4. Identify the functional group structure of Aldehydes. 1
- C-C
 - OH
 - C=C
 - CHO
5. Give *one example* of an Enzyme. 1
6. Name the soil formed due to the diffusion of iron in the metamorphic rock. 1
7. What is Farm Yard Manure ? 1
8. What are Lipids ? 1

SECTION B

Question Nos. 9-14—Answer in *two* or *three* lines.

9. State any *two* properties of enzyme. 2
10. Give *two* points of difference between DNA and RNA. 2
11. Name *two* important ores of iron. 2
12. Why cow dung is considered the best form of manure ? 2
13. Name any *two* plant derived products that can be used as an insecticides. 2
14. State any *two* nitrogen fixing bacteria. 2

SECTION C

Question Nos. 15-20—Answer in 3-4 lines :

15. Explain the steps involved in soil testing. 3
16. Describe the role of nitrogen nutrient in plant growth. 3
17. Draw a neat labelled sketch of plant cell. 3
18. Calculate the molarity of solution containing 5.6 g of KOH dissolved in water to make 500 ml solution. (Atomic mass K = 39, O = 16, H = 1) 3
19. Explain the role of proteins in the body. 3
20. Write a short note on Alluvial soil. 3

Or

20. Write a short note on Laterite soil.

SECTION D

Question Nos. 21-23—Answer in 4-5 lines :

21. Explain the different types of rocks. 4
22. With neat chemical equation explain the preparation of carbon dioxide gas. 4
23. Classify the pesticide on the mode of entry in the body of pest. 4

Or

23. Classify the pesticide on the mode of chemical nature.