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**Time : 2 Hours****CHEMISTRY (Vocational)****Subject Code**

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**Total No. of Questions : 23 (Printed Pages : 4)****Maximum Marks : 50**

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- 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.