

22485

12425

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
  - (2) Illustrate your answers with neat sketches wherever necessary.
  - (3) Figures to the right indicate full marks.
  - (4) Assume suitable data, if necessary.

**Marks**

**1. Attempt any FIVE of the following :**

**10**

- (a) Define manure.
- (b) Define vermiculture.
- (c) State the name of any four micro-nutrients.
- (d) What is Bio-fertilizer ?
- (e) Enlist any four deficiency symptoms of zinc.
- (f) State any four uses of fungicide.
- (g) Give the name of insecticide which are banned in India.

**2. Attempt any THREE of the following :**

**12**

- (a) Describe the essential plant nutrient and their sources.
- (b) Explain the role and deficiency symptoms of magnesium.
- (c) Enlist the uses of oil cakes in agriculture.
- (d) Explain step by step procedure for preparing vermi-compost.



- 3. Attempt any THREE of the following : 12**
- (a) Enlist the advantages of mixed fertilizer.
  - (b) State various application of Bio-fertilizer.
  - (c) Summarize the role of agro-chemicals in agriculture.
  - (d) Classify various insecticides used in agriculture.
- 4. Attempt any THREE of the following : 12**
- (a) Describe in details the classification of manures.
  - (b) Write a note on the following :
    - (i) sewage
    - (ii) sludge
  - (c) State primary nutrient fertilizer and enlist their effect on crop growth.
  - (d) Illustrate various methods of fertilizer application.
  - (e) Enlist various advantages and disadvantages of agro-chemicals.
- 5. Attempt any TWO of the following : 12**
- (a) Explain Green manure with its advantages and disadvantages.
  - (b) Differentiate between macronutrient and micronutrients with suitable examples.
  - (c) Explain the classification of fertilizers in details.
- 6. Attempt any TWO of the following : 12**
- (a) Write note on various symptoms occurred due to the deficiency of calcium on plants.
  - (b) Write note on :
    - (i) Insecticide
    - (ii) Herbicide
    - (iii) Fungicide
  - (c) Explain in details various properties and uses of herbicide.
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