

313358

12425

03 Hours / 70 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Answer each next main Question on a new page.
(3) Illustrate your answers with neat sketches wherever necessary.
(4) Figures to the right indicate full marks.
(5) Assume suitable data, if necessary.
(6) Use of Non-programmable Electronic Pocket Calculator is permissible.
(7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. **Attempt any FIVE of the following :** **10**
- a) Define manures with its example.
 - b) Describe Green manures.
 - c) State any four advantages of biofertilizers.
 - d) Enlist any four basic fertilizer name.
 - e) Write any four advantages of mixed fertilizer.
 - f) Describe insecticide with its example.
 - g) Write any four uses of liquid fertilizer.

P.T.O.

- 2. Attempt any THREE of the following :** **12**
- a) Differentiate organic fertilizer and chemical fertilizer.
 - b) Explain in detail biogas plant.
 - c) Define fertilizer and explain in details Nitrogen fertilizer.
 - d) Classify any two different agrochemicals.
- 3. Attempt any THREE of the following :** **12**
- a) Explain effects of sewage and sludge on soil and plant growth.
 - b) State the important factors while calculating fertilizer dose for any crop
 - c) Explain in details different methods of composting.
 - d) Explain in details doses of nutrients for the different crops.
- 4. Attempt any THREE of the following :** **12**
- a) Classify in detail bulky and concentrated manures.
 - b) Give classification of biofertilizers.
 - c) Differentiate between biofertilizer and organic fertilizer.
 - d) Explain in details different types of mixed fertilizers.
 - e) Describe Herbicides and their properties.
- 5. Attempt any TWO of the following :** **12**
- a) Explain in details preparation of FYM and its any one method.
 - b) Define secondary plant nutrients and explain in details its effect on plant growth.
 - c) Explain the methods of vermicomposting. (Any three)
- 6. Attempt any TWO of the following :** **12**
- a) Explain in details importance of micro nutrients in crop production with its example.
 - b) Explain in details advantages and disadvantages of mixed fertilizer.
 - c) Describe insecticides and explain in details with example.
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