

313358

12526

3 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 answer 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 concentrated manures.
- b) Define Vermicomposting.
- c) State the name of gases which are present in biogas.
- d) Enumerate the natural source of nitrogen fertilizers to the crop and soil.
- e) Define fertigation.
- f) State any four names of complex fertilizers.
- g) Enlist the function of insecticide.

P.T.O.

2. Attempt any THREE of the following: 12
- a) Differentiate between manures and fertilizers.
 - b) Explain in details various methods of composting.
 - c) Illustrate different sources of manures.
 - d) Describe the importance of micronutrients.
3. Attempt any THREE of the following: 12
- a) Explain the advantages of biogas plant.
 - b) Represent the composition of sewage and sludge.
 - c) Give step by step procedure for preparation of vermicomposting.
 - d) Classify the type of Biofertilizer.
4. Attempt any THREE of the following: 12
- a) Describe various methods of fertilizer application.
 - b) Explain the role of agrochemical in agriculture.
 - c) Write various uses and properties of insecticides.
 - d) Write the advantages and disadvantages of agrochemicals.
 - e) Write note on :-
 - i) Fungicide
 - ii) Herbicide.
5. Attempt any TWO of the following: 12
- a) Illustrate various effects of different fertilizers on soil properties.
 - b) Write in detail classification of Nitrogenous fertilizers with its suitable examples.
 - c) Explain in detail various properties and uses of secondary nutrient fertilizers.
6. Attempt any TWO of the following: 12
- a) Summarize advantages and disadvantages of mixed fertilizer.
 - b) Identify various measures for handling and storage of fertilizer.
 - c) Explain the uses of liquid fertilizer and its importance to the crop growth.
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