

Paper Id:

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B. TECH
(SEM-I) THEORY EXAMINATION 2019-20
ELEMENTARY AGRICULTURE

Time: 3 Hours**Total Marks: 70****Note:** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief. 2 x 7 = 14**

- a. What is an acidic soil?
- b. Establish a relationship among true density, apparent density and pore space.
- c. Explain inorganic fertilizers.
- d. What are the climatic requirements of banana cultivation?
- e. What do you mean by pH?
- f. What do you mean by Fertigation?
- g. Write different types of mulching process of paddy field.

SECTION B**2. Attempt any three of the following: 7 x 3 = 21**

- a. What is cropping system? Discuss the rely cropping and mixed cropping in detail by giving examples.
- b. Explain irrigation and irrigation scheduling. Explain drip irrigation methodology for the horticulture crop.
- c. Explain the nursery raisin method of Papaya plants.
- d. What is the status and scope of horticultural or medicinal crop production in our state?
- e. What are Bio-fertilizers? Describe the importance of Bio-fertilizers. Also compare it with chemical fertilizers.

SECTION C**3. Attempt any one part of the following: 7 x 1 = 7**

- (a) Explain the rely cropping and mixed cropping in detail by giving examples.
- (b) Discuss the soil organic matter, its composition and decomposition, its effect on soil health and crop production.

4. Attempt any one part of the following: 7 x 1 = 7

- (a) Explain the production technology of any fruit crop of your choice grown in Uttar Pradesh.
- (b) How nursery could be propagated round the year in the erratic weather conditions of your area?

5. Attempt any one part of the following: 7 x 1 = 7

- (a) Why good quality irrigation water is necessary? Enumerate few parameters.
- (b) Discuss important soil physical properties and their importance in crop production.

6. Attempt any one part of the following: 7 x 1 = 7

- (a) Discuss the production technology of Brinjal and tomato.
- (b) Write short notes on the following :
 - i. Grading and packaging of mango
 - ii. Storage of vegetable seed
 - iii. Plant growing structures

7. Attempt any one part of the following: 7 x 1 = 7

- (a) Explain the method of fertilizer application for the plants.
- (b) What are the soils and climatic requirements for floricultural crops in the Indo-Gangetic plains of India?