

Question Paper Code : 6091

M.Sc. (Ag.) (Semester-II) Examination, 2018

AGRONOMY

(Organic Farming)

Time : Three Hours]

[Maximum Marks : 50

Note : Answer **five** questions in all. Question **No.1** is **compulsory**. Besides this, **one** question is to be attempted from each unit.

1. Describe briefly the following : [2x10=20]
- (a) Agro-forestry
 - (b) Minimum Tillage
 - (c) Conservation Tillage
 - (d) Precision agriculture
 - (e) Bio-pesticides
 - (f) Soil productivity and soil fertility
 - (g) Moisture conservation

(h) Organic residues

(i) Shelter belts

(j) Rhizobium culture

UNIT-I

2. What is No-Till farming system ? Describe its merits and demerits. [7]

3. Write short notes on the following : [2+2+3=7]

(a) Alternate land uses

(b) Resource conservation

(c) Water conservation

UNIT-II

4. Define green manuring. How it can be helpful in improving soil health and crop productivity. [8]

5. Write short notes on the following : [2+3+3=8]

(a) Soil fertility management

(b) Water productivity

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(2)

(c) Nutrient use efficiency

UNIT-III

6. Classify weeds. How can be control weeds in rice-wheat cropping system ? [7]

7. Write short notes on the following : [2+2+3=7]

(a) Farming system research

(b) Relay cropping

(c) Crop rotation

UNIT-IV

8. Describe the role of biological agents in integrated pest management. [8]

9. Write short notes on the following : [3+3+2=8]

(a) Bio-fertilizers and Bio-pesticides

(b) Biological weeds control

(c) Pheromonal pest control

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(3)