

**B.Sc. (Ag.) Honours Semester-V Examination, 2018**

**Course No: AGR-311 (Organic Farming)**

Signature of Centre Superintendent

**Roll No. :** (in figure) \_\_\_\_\_ (in words) \_\_\_\_\_

Student Index No. \_\_\_\_\_ Regn. No. \_\_\_\_\_ of \_\_\_\_\_

**Time : 2 Hours**

**Full marks : 40**

Questions are of value as indicated in the margin

**Part - I**  
**(Objective and Short Answer Type)**  
**(Use only ball point pen)**

**Time : 20 minutes**

**Full marks : 10**

- Note:** 1. Answer in question paper itself.  
2. Striking, rewriting or overwriting are not allowed in the objective type questions.

1. **Indicate whether the statement is 'True' (T) or 'False' (F) (any five):** 5×1=5

- (a) Organic farming in India is losing popularity day by day.
- (b) One of the basic mottos of organic farming is "Feed the soil, not the plants".
- (c) Marigold is used as trap crop in tomato.
- (d) Liquid manure is a high cost organic input.
- (e) In Organic farming, dependence on off-farm inputs is nil.
- (f) Compost is a mass of rotted organic matter prepared from waste materials.
- (g) Rhizobium culture is applied @ 5kg/ha for inoculating the seeds.

2. **Fill in the blanks (any five):** 5×1=5

- (a) \_\_\_\_\_, an English Botanist, is considered as the "father of modern organic farming".
- (b) Full form IFOAM is \_\_\_\_\_.
- (c) \_\_\_\_\_% moisture should be maintained in vermicompost bed.
- (d) \_\_\_\_\_ is a programme for producers of all organic agricultural products including organic food.
- (e) The book 'one straw revolution' was written by \_\_\_\_\_.
- (f) Ministry of \_\_\_\_\_ is involved in regulating organic farming in India.
- (g) \_\_\_\_\_ days should be kept in between incorporation of green manuring and transplanting of rice.

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**Part - II**  
**(Descriptive Type)**

**Time : 100 minutes**

**Full marks : 30**

Questions are of value as indicated in the margin

Answer *any three* questions.

3. What do you mean by organic farming? Narrate the basic differences between organic farming and conventional chemical farming. Mention the benefits and constraints of organic farming. 2+4+4=10
4. State the importance of green manuring. Classify green manure crops with appropriate examples. Mention the points to be considered for the selection of green manure crop for a particular area. Explain the stage of green manure crop during incorporation and how is it incorporated in the rice field? What are the constraints of green manuring use? 2+2+3+2+1=10
5. (a) “Certification is essential for authenticating the organic products” – Explain. Narrate various steps of organic certification.
- (b) Classify bio-fertilizers. Mention the importance of bio-fertilizers in organic farming. Write down different forms of bio-fertilizer used in crop production. (2+3)+(2+2+1)=10
6. Write short notes (*any four*): 2.5×4=10
- (i) Pheromones
  - (ii) Bio-village
  - (iii) Enriched compost
  - (iv) Use of Azolla in rice cultivation
  - (v) Trap crops
  - (vi) Chemical preservatives to avoid N-loss in FYM preparation
7. Discuss in brief (*any two*): 5×2=10
- (a) Bio-pesticides
  - (b) Consequences of green revolution in Agriculture
  - (c) Preparation of vermicompost – any suitable method and the precautions to be taken
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