

**B.Sc. (Ag.) Honours Semester-V Examination, 2016**  
**Course No.: AGR-311**  
**(Organic Farming)**  
**(New Syllabus)**

Signature of Centre Superintendent

Roll No.: (in figure)_____ (in words)_____
Student Index No. _____ Regn. No. _____ of _____

**Time: Two 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. State True (T) or False (F) in respect the following statements (any five):**

**0.5×4=2.0**

- (i) GMO Crop is prohibited in organic farming.
- (ii) Organic farming promotes biodiversity, biological cycles and soil micro-organism activity.
- (iii) *Bacillus thuringiensis* is a Phosphate Solublizing Bacteria (P.S.B.)
- (iv) VAM bio-fertilizer can fix atmospheric N.
- (v) Organic farming mainly depends on off-farm inputs.
- (vi) Lady bird beetle is a parasite.
- (vii) Soil solarization is used for controlling soil borne pathogen.
- (viii) Azophos is a bio-fertilizer.

**2. Fill up the following blanks (any five):**

**1×5=5.0**

- (i) Father of Modern Organic Agriculture is \_\_\_\_\_.
- (ii) The term 'organic farming' was coined by Lord Northbourne in his book \_\_\_\_\_.
- (iii) The head quarter of IFOAM is situated in \_\_\_\_\_.
- (iv) Indore method of composting was developed by \_\_\_\_\_.
- (v) The word 'Manure' originated from the French word \_\_\_\_\_ meaning 'work with soil'.
- (vi) *Sesbania* \_\_\_\_\_ is the stem nodulating green manure crop.
- (vii) \_\_\_\_\_ is the free living N fixing bacteria.
- (viii) The logo of certified organic product in India is \_\_\_\_\_.

**B.Sc. (Ag.) Honours Examination, 2016**

**Semester-V**

**Course No.: AGR-311**

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**Part - II**

**( Descriptive Type )**

**Time: 100 Minutes**

**Full Marks: 30**

*Questions are of value or as indicated in the margin*

**Answer any four questions from the following:**

3. Define organic farming. How does it differ from chemical farming? State the relevance of organic farming in present context of food security in our country. What are the basic principles of organic farming? 1+2+2+2.5=7.5
4. Define vermicomposting. What are the environmental conditions required for earthworm during vermicomposting? Mention scientific name of four major potential vermiworms. Discuss the methodology followed in preparation of vermicompost. 2+2+1+2.5=7.5
5. Define biological control. What are the biological control agents? Write the characteristics of a successful biocontrol agent. Discuss the advantages of using biocontrol agents. 2+1.5+2+2=7.5
6. Define bio-fertilizer. Write the classification of bio-fertilizer. What are the advantages of use of bio-fertilizer? Discuss about different methods of bio-fertilizer application. 1+1.5+2+3=7.5
7. What is organic certification? What are the steps involved in organic certification under NPOP? Discuss in short about organic weed management. 1+5+1.5=7.5
8. Write short notes on *any five* of the following: 5×1.5=7.5
  - (i) NPOP
  - (ii) Trap crops
  - (iii) Conversion period of an organic farm
  - (iv) Bio-village
  - (v) Accreditation
  - (vi) Green manuring technique in rice crop
  - (vii) Botanical pesticides
  - (viii) Labelling

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