

B.Sc. (Ag.) Honours Semester-V Examination, 2014

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 to the following statements (any five):

5×1=5

- (i) GMO crop is prohibited in organic farming.
- (ii) Organic farming promotes biodiversity, biological cycles and soil micro organisms.
- (iii) *Bacillus* is a Phosphate Solubilizing Bacteria (PSB).
- (iv) VAM biofertilizer can fix atmospheric N.
- (v) Neem cake is a bulky organic manure.
- (vi) Inclusion of a legume crop in cropping system is important in organic farming.
- (vii) Lady bird beetle is a predator.
- (viii) Soil solarization is used for controlling air borne pathogen.

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2. Fill up the blanks with most appropriate words (any five):

5×1=5

- (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 book 'One Straw Revolution' was written by _____
- (vi) *Sesbanria* _____ 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 _____

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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 four* questions from the following :

3. Define organic farming, How it differs 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 vermiforms. Discuss about the benefits of using vermicompost in soil.
2+2+1.5+2=7.5
 5. Define biological control. What are biological control agents? Write the characteristics and functions of any two biocontrol agent. Discuss the advantages of using biocontrol agents.
2+1.5+2+2=7.5
 6. Define green manuring and green leaf manuring with examples. Write down the characteristics of green manuring crop. How green manuring is practised? Discuss the role of green manuring in organic farming.
2+1.5+2+2=7.5
 7. What is organic certification? "Certification is essential for authenticating the organic products"- Explain this statement. Discuss the managerial steps in brief for converting inorganic farming into organic farming.
2+1+4.5=7.5
 8. Write short notes on (**any five**) :
5×1.5=7.5
 - (a) Certification agency
 - (b) Conservation tillage
 - (c) Biopesticide
 - (d) Phospho compost
 - (e) Bt
 - (f) Recycling of organic waste
 - (g) *Azolla*
 - (h) Use of chemical preservatives in compost.
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