

Organic Farming (HNO-100)

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ID. No. ...13014.....

SEMESTER FINAL EXAMINATION 2015-16
COLLEGE OF HORTICULTURE
VCSG Uttarakhand University of Horticulture & Forestry, Bharsar-246 123
Pauni Garhwal, Uttarakhand

Programme: B.Sc. (Hons.) Horticulture (3rd Year)
Course Title: Organic Farming (HNO-100)
Credit Hours: 2 (1+1)
Max. Marks: 50.00 Marks

Roll No.13014.....
Date of Examination:
Time: 09:30am - 12:30pm(3 Hrs.)
Semester: Ist 2015-16

- Note: (i) All the questions are compulsory, cutting & over writing is not allowed.
(ii) The question paper consists of two parts, Part-I (objective) of 20.00 marks and the Part-II (subjective) of 30.00 marks.
(iii) Write the answer of Part-1 on the question paper itself.

PART A (Max. Marks: 20.00)

Q. No. 1: Fill in the blanks.

(0.5x10.0 = 5.0 Marks)

- 1) Sustainable agriculture is also called organic farming asorganic matteris the main source for nutrient management.
- 2)albert howardis often referred as the father of "Organic Farming".
- 3) Nations wealth is measured based on the ...fertility..... of its soil.
- 4) IFOAM stands for.....international federation organic agriculture moment.....
- 5) UOCB stands for...uttrakhand organic community board
- 6) The symbiotic association of *Azolla pinnata* and *Anabaena azollae* is termed as ...azolla anabrna.....
- 7) *Eisenia foetida* is aearthworm
- 8) Activated compost process (method) was developed byridge & fowler.....
- 9) The organization that looks after/promote organic agriculture at international level is.....
- 10)pseudomonas.....bacteria make available soil phosphorus to plants.

Q. No. 2: State whether the following statements True (T) /False (F)?

(0.5 x 10.0 = 5.0 Mark)

- 1) Agriculture contributes 28 % to GDP. (f)
- 2) Uttarakhand stood first in Zn (78 %), Fe (39 %) and Bo (32 %) deficiencies. (f)
- 3) Green revolution was only concentrated in areas having fertile soil and adequate water supply. (t)
- 4) National Centre of Organic Farming is situated at Lucknow. (f)
- 5) Bacillus is a phosphate solubilizing fungi. (f)

- 6) Biofertilizers are not fertilizers. (t)
- 7) Vermiculture refers to management of earthworm to produce compost. (f)
- 8) NCOF stands for National Council of Organic Farming. (f)
- 9) The nitrogen content of vermicompost is 10 per cent. (f)
- 10) Azolla fixes nitrogen in association with fern. (t)

Q. No. 3: Tick (√) the correct answer of the followings. (0.5 x 10.0 =5.0 Mark)

- 1)is a leguminous green manuring crop.
 a) **Sunhemp** b) Sorghum c) Barley d) None of these
- 2)is not an advantage of Azolla.
 a) Contains higher N b) Release of N easy c) **No leaching loss** d) Release nutrient quickly
- 3)developed Bangalore method of composting.
 a) Sir Albert Howard b) ND Pandharipande c) **Dr. Acharya** d) None of these
- 4) Compost making includesimportant principle(s).
 a) One b) Two c) **Three** d) Four
- 5) Presently net cultivated area in India ism ha.
 a) 124.8 b) **142.8** c) 224.8 d) 242.8
- 6) The permissible limit ofin drinking water is 45 mg/ litre by WHO.
 a) Sodium b) **Nitrate** c) Phosphate d) Potassium
- 7)is headquarter of IFOAM.
 a) India b) China c) Pakistan d) **None of these**
- 8)crops are demand for organic products from India.
 a) Basmati rice b) Spices c) Tea d) **All of these**
- 9) In India which is the accreditation agency authorizing certifying agencies to certify organic products?
 a) Coffee Board b) Spices Board c) Tea Board d) **All of these**
- 10)per cent is proper moisture condition for composting.
 a) 10-20 b) 20-40 c) **40-60** d) 60-80

Question No. 4: Define the following with example (Attempt any five). (1.0 x 5.0=5.0 Marks)

1. Myco herbicides
2. Mulching
3. Crop rotation
4. Green manuring
5. Organic residues
6. Certification
7. Biological Nitrogen Fixation

PART II, Subjective (Max. Marks: 30.00)

Question No. 5: Differentiate among the following (Attempt any three). (2.50 x 3.0=7.5 Marks)

- 1) Sustainable agriculture and Modern agriculture
- 2) Bulky organic manure and Concentrated organic manure
- 3) Debated issues regarding OF and Significance of OF for Indian farmer
- 4) Green manuring and Composting (Methods of growing Azolla)
- 5) Phosphate solubilizers and phosphate absorbers biofertilizers
- 6) Bangalore and Coimbatore method of composting

Question No. 6: Write short notes on any three.

(2.50 x 3.0=7.5 Marks)

- 1) Certification
- 2) Farm Yard Manure (FYM)
- 3) Pheromone trap
- 4) Phosphate solubilizing microorganisms
- 5) Bird perches
- 6) Blue green algae

Question No. 7: Long type question (Attempt any three).

(5.0 x 3.0=15.0 Marks)

- 1) What do you mean by vermitechnology? Describe the vermicompost preparation in detail.
- 2) What do you mean by Organic Farming? Explain the principles of Organic Farming.
- 3) What is composting? Describe the principles of composting and essential requirements for composting.
- 4) Define accreditation. Discuss function of accreditation agencies.
- 5) Describe the NADEP method of composting.
- 6) What is biofertilizers? Describe the Rhizobium inoculants.