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**MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD
SEMESTER END EXAMINATION**

B.Sc. (Agri.)

Semester : VI (New)	Term : II	Academic Year : 2011-12
Course No. : AGRO 3611	Title : Organic and Rainfed Farming	
Credits : 2 (1+1)		
Day & Date : Tuesday, 24.04.2012	Time : 09.00 to 11.00	Total Marks : 40

- Note :**
1. Solve **ANY EIGHT** questions from **SECTION "A"**.
 2. All questions from **SECTION "B"** are compulsory.
 3. All questions carry equal marks.
 4. Draw neat diagrams wherever necessary.

SECTION "A"

- Q.1 Differentiate between organic farming and conventional farming.
- Q.2 Explain management strategies for perennial weed control.
- Q.3 Explain in brief organic amendments for reclamation of acidic soil.
- Q.4 What are the criteria for selection of bioagents in weed control?
- Q.5 Suggest contingency crop plan under delayed rainfall condition.
- Q.6 Explain bird perches as biological tool to control crop pests.
- Q.7 Write short notes (Any Two)
 - 1) Mulch
 - 2) Intercropping
 - 3) Antitranspirant
- Q.8 Give the different insitu soil moisture conservation practices.
- Q.9 Explain various techniques used to mitigate the drought.
- Q.10 What steps are needed to take to promote domestic and export market for organic products.

SECTION "B"

- Q.11 Define the following terms.
 - 1) Water harvesting
 - 2) Organic standards
 - 3) Soil amendments
 - 4) Solarization
- Q.12 Spell out the abbreviations.
 - 1) CRIDA
 - 2) IFOAM
 - 3) NPOP
 - 4) GEAC

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MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester : VI (New)	Term : II	Academic Year : 2010-11
Course No. : AGRO 3611	Title : Organic and Rainfed Farming	
Credits : 2 (1+1)		
Day & Date : Tuesday, 19.04.2011	Time : 09.00 to 11.00	Total Marks : 40

- Note :**
1. Solve ANY EIGHT questions from SECTION "A".
 2. All questions from SECTION "B" are compulsory.
 3. All questions carry equal marks.
 4. Draw neat diagrams wherever necessary.

SECTION "A"

- Q.1 Define composting and vermi-composting. Write down the steps involved in preparation of vermi-composting.
- Q.2 Define Integrated pest management. Give its approaches.
- Q.3 Define Organic Farming. Write its advantages. Explain the reasons which gave birth to Organic farming.
- Q.4 Enlist quality parameters on the basis of which Organic certificate is given. What are the minimum requirements for organic certification?
- Q.5 Define dry land agriculture. Explain the problems of dry land agriculture.
- Q.6 Define watershed. Elaborate the concept and give the principles of watershed management.
- Q.7 Define drought. Give its classification and explain agricultural drought.
- Q.8 Why soil and water conservation is essential? Explain agronomic management practices for soil and water conservation.
- Q.9 What is contingency crop planning? Suggest contingency crop plan under delayed rainfall situation.

Q.10 Write short notes (Any two):

- 1) Crop rotation 2) Soil erosion 3) Mulching

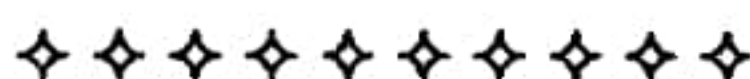
SECTION "B"

Q.11 Define the following terms:

- 1) Inter cropping 2) Bio-pesticide
3) Antitranspirants 4) Dry farming

Q.12 Spell out the abbreviations:

- 1) NPOP 2) NIOF
3) IFOAM 4) CRIDA



MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester : VI (New)	Term : II	Academic Year : 2012-13
Course No. : AGRO 3611	Title : Organic and Rainfed Farming	
Credits : 2 (1+1)		
Day & Date : Tuesday, 16.04.2013	Time : 09.00 to 11.00	Total Marks : 40

- Note :**
1. Solve ANY EIGHT questions from SECTION "A".
 2. All questions from SECTION "B" are compulsory.
 3. All questions carry equal marks.
 4. Draw neat diagrams wherever necessary.

SECTION "A"

- Q.1 Define organic farming. Give the principles of organic farming and future prospect of the organic farming in Indian context.
- Q.2 Give the contingency crop planning under delayed rainfall condition.
- Q.3 Define soil amendments and explain the amendments for reclamation of saline soil in detail.
- Q.4 Enlist the different methods of preparation of FYM and composting and explain vermicomposting.
- Q.5 Define dryland agriculture. Write in detail the different categories of dryland agriculture according to rainfall.
- Q.6 Write short notes on (Any Two)
- 1) Antitranspirants
 - 2) Mycoherbicides
 - 3) Certifying agencies of organic farming in India
- Q.7 Define water harvesting. Explain the various techniques of water harvesting and recycling.
- Q.8 Define drought and explain various mechanisms of plant to mitigate the drought.
- Q.9 Define watershed. Explain the concept and management aspects of watershed.
- Q.10 Enlist the various methods of organic weed management and give the management practices to be adopted for control of the perennial weeds.

SECTION "B"

- Q.11 Define the following terms.
- 1) Organic standards
 - 2) Organic certification
 - 3) Certified organic
 - 4) Soil solarization
- Q.12 Do as directed.
- 1) Give the full form of APEDA.
 - 2) Name the erosion permitting crop.
 - 3) Give the full form of NOCA.
 - 4) Who is considered as the father of modern organic farming in India?

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SEMESTER END EXAMINATION**

B.Sc. (Agri.)

Semester : VI (New)	Term : II	Academic Year : 2013-14
Course No. : AGRO 3611	Title : Organic and Rainfed Farming	
Credits : 2 (1+1)		
Day & Date : Monday, 28.04.2014	Time : 09.00 to 11.00	Total Marks : 40

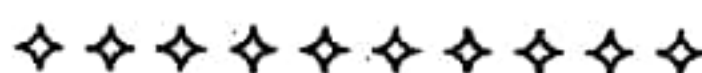
- Note :**
1. Solve ANY EIGHT questions from SECTION "A".
 2. All questions from SECTION "B" are compulsory.
 3. All questions carry equal marks.
 4. Draw neat diagrams wherever necessary.

SECTION "A"

- Q.1 Elaborate the concept of organic farming and state the advantages of organic farming.
- Q.2 Give the classification of biofertilizers and state the advantages of biofertilizer application.
- Q.3 What is Green manuring? Explain the types of green manuring with suitable examples.
- Q.4 What do you mean by integrated pest management (IPM) in organic farming? State different bio-control agents used to control pests in organic farming.
- Q.5 Define accreditation. Enlist different accreditation agencies for organic crop production in India and functions of accreditation agencies.
- Q.6 Define watershed. Elaborate its concept and state the principles of watershed management.
- Q.7 Define water harvesting and Describe in short various techniques of water harvesting and recycling of runoff water.
- Q.8 What do you mean by contingency crop planning? Suggest management options to mitigate the situation of dry spell during crop growth period.
- Q.9 Define dry land agriculture. Describe the categories of dry land agriculture according to rainfall.
- Q.10 Write short notes on (Any Two)
- 1) Intercropping
 - 2) Soil amendments
 - 3) Agronomical measures of soil and water conservation

SECTION "B"

- Q.11 Define the following terms.
- 1) Bio-pesticides
 - 2) Compost
 - 3) Sequence cropping
 - 4) Drought
- Q.12 State True or False.
- 1) Phenyl mercuric acetate (PMA) is stomatal closing type antitranspirant.
 - 2) Rains with high intensity increase the effectiveness of rainfall.
 - 3) The benefits of organic farming can be achieved immediately.
 - 4) Higher plant population is advocated under moisture stress condition.



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MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester : VI (New)	Term : II	Academic Year : 2014-15
Course No. : AGRO 3611	Title : Organic and Rainfed Farming	
Credits : 2 (1+1)		
Day & Date : Saturday, 09.05.2015	Time : 09.00 to 11.00	Total Marks : 40

- Note : 1. Solve ANY EIGHT questions from SECTION "A".
2. All questions from SECTION "B" are compulsory.
3. All questions carry equal marks.
4. Draw neat diagrams wherever necessary.

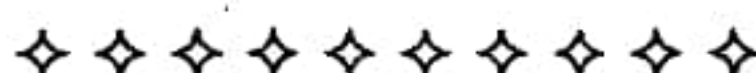


SECTION "A"

- Q.1 Enlist different agronomical and mechanical techniques for soil and water conservation. Write in detail about antitranspirants.
- Q.2 Define contingency cropping and suggest contingency crop plan under delayed rainfall situation.
- Q.3 What are the components of certification of organic produce? Enlist the quality parameters on the basis of which organic certificate is given.
- Q.4 Define water harvesting and explain the various techniques of water harvesting and recycling.
- Q.5 Elaborate the concept of organic farming along with its advantages and disadvantages.
- Q.6 Define FYM. Explain in short the factors influencing composition of FYM.
- Q.7 Explain the terms dry farming, dryland farming and rainfed farming. Write down the characteristics of rainfed farming.
- Q.8 Define Integrated Pest Management and give its integrated approaches.
- Q.9 Elaborate the concept of watershed management along with its principles.
- Q.10 Write short notes on (Any two).
1) Dashparni ark
2) Vermicompost
3) Recycling of organic produce

SECTION "B"

- Q.11 Define the following terms.
1) Drought
2) Biofertilizers
3) Intercropping
4) Sequence cropping
- Q.12 Do as directed.
1) Give two examples of erosion resisting crops.
2) Spell out the abbreviation IFAOM.
3) Urine of all animals contains more percentage of nitrogen and potash compare to the dung portion (State True or False).
4) Mention NPK content in Karanj (*Pongamia pinnata*) cake.



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