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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 3610	Title	: Farming Systems and Sustainable Agriculture		
Credits	: 2 (1+1)	Time	: 09.00 to 11.00	Total Marks	: 40
Day & Date	: Monday, 25/04/2011				

- 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 farming system and give the importance of farming system.
- Q.2 Explain the differences between sustainable agriculture and modern agriculture.
- Q.3 Give the concept of organic farming and write the components of organic farming.
- Q.4 Define cropping system and give the parameters to assess the cropping system.
- Q.5 Explain in short the problems associated with modern agriculture.
- Q.6 What is agro forestry? Give the importance of agroforestry.
- Q.7 What is multiple cropping? Give various types of multiple cropping with suitable examples.
- Q.8 Write in short about the different factors affecting ecological balance.
- Q.9 Enlist different components of farming system and explain any one of them in detail.
- Q.10 Write short notes on (Any two):
- 1) Allelopathy
  - 2) Green manuring
  - 3) Bio gas

### SECTION "B"

- Q.11 Define the following terms:
- 1) Sole cropping
  - 2) Augmenting crop
  - 3) Subsistence farming
  - 4) Crop rotation
- Q.12 Match the followings :
- | "A"               | "B"          |
|-------------------|--------------|
| 1) Ratooning      | a) Wax       |
| 2) Fishery        | b) Mushroom  |
| 3) Apiculture     | c) Subabhul  |
| 4) Alley cropping | d) Sugarcane |
|                   | e) Catala    |



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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 3610	Title : Farming Systems and Sustainable Agriculture	
Credits : 2 (1+1)		
Day & Date : Saturday, 28.04.2012	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 Enlist different basis for classification of farming systems and explain any one of them in detail.
- Q.2 Define cropping system. Give its classification and explain monoculture.
- Q.3 Why there is need to shift towards the Organic farming?
- Q.4 Explain basic concept of Low External Input Agriculture.
- Q.5 What are the basic components of Organic farming?
- Q.6 Write in short about the factors affecting ecological balance.
- Q.7 Which economic indices are used for evaluation of profitability of cropping system?
- Q.8 What are the various non-monetary inputs in agriculture?
- Q.9 What are the most common problems that result from irrigation with poor quality water?
- Q.10 Write in brief about constraints and management of acidic soils.

### SECTION "B"

- Q.11 Define the following terms.
- |                             |                        |
|-----------------------------|------------------------|
| 1) System                   | 2) Specialized farming |
| 3) Cropping Intensity Index | 4) Allelopathy         |
- Q.12 Match the pairs.
- | "A"           | "B"                     |
|---------------|-------------------------|
| 1) Fish       | a) Irrigated            |
| 2) Dairy      | b) Dry farming          |
| 3) Sheep      | c) Shifting cultivation |
| 4) $R < 33\%$ | d) Low land             |



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

**B.Sc. (Agri.)**

<b>Semester</b> : VI (New)	<b>Term</b> : II	<b>Academic Year</b> : 2012-13
<b>Course No.</b> : AGRO 3610	<b>Title</b> : Farming Systems and Sustainable Agriculture	
<b>Credits</b> : 2 (1+1)		
<b>Day &amp; Date</b> : Tuesday, 23.04.2013	<b>Time</b> : 09.00 to 11.00	<b>Total Marks</b> : 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 farming system and write the scope and objectives of the farming system.
- Q.2 Define non monetary inputs and explain in brief the different non monetary inputs.
- Q.3 Define sustainable agriculture, give its merits and explain the differences between sustainable and modern agriculture.
- Q.4 Define the cropping system and give its classification with suitable examples.
- Q.5 Explain in brief the problems with poor quality water.
- Q.6 Describe in brief the factors influencing ecological balance.
- Q.7 Define soil degradation and enlist the causes of soil degradation.
- Q.8 Define cropping scheme and give its principles.
- Q.9 Define organic farming and explain the components of organic farming.
- Q.10 Write short notes on (Any Two).
  - 1) Low External Input Supply Agriculture (LEISA)
  - 2) Benefits of integrated farming system
  - 3) Integrated farming system (IFS) for wetland system

**SECTION "B"**

- Q.11 Define the following terms.
  - 1) Land equivalent ratio
  - 2) Monoculture
  - 3) Wasteland
  - 4) Cropping intensity index
- Q.12 State true or false.
  - 1) The livestock is complimentary enterprise to crop production under mixed cropping.
  - 2) Additive series is less efficient than replacement series.
  - 3) The improved cropping system is the important component of farming system.
  - 4) Regular or irregular harvesting of natural products from cultivated plants is collective farming.

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MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE  
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester : VI (New)	Term : II	Academic Year : 2013-14
Course No. : AGRO 3610	Title : Farming Systems and Sustainable	
Credits : 2 (1+1)	Agriculture	
Day & Date : Saturday, 03.05.2014	Time : 09.00 to 11.00	Total Marks : 40

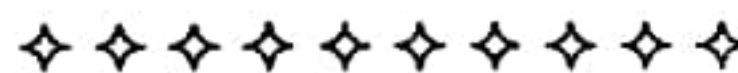
- Note :
1. Solve ANY EIGHT questions from SECTION "A".
  2. All questions from SECTION "B" are compulsory.
  3. All questions carry equal marks.
  4. Draw neat diagrams wherever necessary.

SECTION "A"

- Q.1 What is farming system? Give objective, concept and scope of farming system.
- Q.2 Write in detail about non monetary and low cost inputs.
- Q.3 Define organic farming. Give the concept farming and write the components of organic farming.
- Q.4 Enlist the different indices used for evaluation of cropping scheme and explain economic evaluation.
- Q.5 Write in brief about constraints and management of acidic soils.
- Q.6 Define multiple cropping. Give various types of multiple cropping with suitable examples.
- Q.7 Write in brief about the factors affecting ecological balance.
- Q.8 Explain the differences between sustainable agriculture and modern agriculture.
- Q.9 Define integrated farming system and give the objectives of integrated farming system.
- Q.10 Write short notes on (Any Two)
- 1) Poor quality water
  - 2) Alternate land use system
  - 3) Allelopathy

SECTION "B"

- Q.11 Define the following terms.
- 1) Cropping scheme
  - 2) Sewage
  - 3) Monoculture
  - 4) Augmenting crop
- Q.12 Fill in the blanks.
- 1) Crops of different heights are grown in \_\_\_\_\_ cropping system.
  - 2) Material that is added to soil for correcting problematic soil is known as \_\_\_\_\_.
  - 3) *Apis mellifera* is the species of \_\_\_\_\_.
  - 4) In poultry business \_\_\_\_\_ per cent expenditure is spent on poultry feed.



MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE  
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester : VI (New)	Term : II	Academic Year : 2014-15
Course No. : AGRO 3610	Title : Farming Systems and Sustainable Agriculture	
Credits : 2 (1+1)	Time : 09.00 to 11.00	Total Marks : 40
Day & Date : Thursday, 14.05.2015		

- 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 Describe indices to evaluate the cropping systems.
- Q.2 Enlist major factors affecting the ecological balance and describe ameliorative measures for maintaining sustainability.
- Q.3 What is multiple cropping? Give various types of multiple cropping with suitable examples.
- Q.4 Difference between LEIA (Low External Inputs Agriculture) and HEIA (High External Input Agriculture).
- Q.5 Define sustainable agriculture and describe goals of sustainable agriculture.
- Q.6 Define crop rotation and describe the principles of crop rotation.
- Q.7 Describe in detail advantages of Integrated Farming System (IFS).
- Q.8 Write principles of organic farming and state the causes of low adoption of organic farming.
- Q.9 Define farming system and describe in detail the scope of farming system.
- Q.10 Write short notes on (Any two).  
1) Problem with poor quality irrigation water  
2) Causes for soil/land degradation  
3) Nutrient deficiency symptoms of nitrogen and phosphorus

SECTION "B"

- Q.11 Define the following terms.  
1) Mixed farming  
2) Sewage  
3) Cropping pattern  
4) Rainfed farming
- Q.12 Match the following pairs.

"A"

- 1) Non-monetary input
- 2) Problematic weed
- 3) Morigulture
- 4) Bee keeping

"B"

- a) *Cyperus rotundus*
- b) Proper planting time
- c) *Aphis indica*
- d) Mulberry plant



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