

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE  
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester	: IV (New)	Term	: Second	Academic Year	: 2023-24
Course No.	: AGRO 247	Title	: Farming System and Sustainable Agriculture		
Credits	: 1 (1+0)				
Day & Date	: Tuesday, 16.04.2024	Time	: 9:00 to 11:00 hrs.	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 diagram wherever necessary.

SECTION 'A'

- Q.1 Describe the resource recycling in farming system.
- Q.2 Describe the classification of farming systems based on value of products or income or comparative advantages.
- Q.3 Describe in detail about the factors to be considered for fertilizer schedule in sequential cropping system.
- Q.4 Define Multiple cropping and give in detail its classification.
- Q.5 Describe interaction between component crops in intercropping.
- Q.6 Describe in brief the assessment tools for determining efficiency of cropping system based on land use.
- Q.7 Define Sustainable Agriculture and give its importance in agriculture.
- Q.8 Describe in short the low external input technologies in crop production.
- Q.9 Define Farming system. Give its concept and objectives.
- Q.10 Give the criteria for enterprise selection and describe the types of enterprises in farming system.

SECTION 'B'

- Q.11 Define the following terms:

- |                             |                            |
|-----------------------------|----------------------------|
| 1) Conservation Agriculture | 2) Allelopathy             |
| 3) Cropping systems         | 4) Multiple Cropping Index |

- Q.12 Fill in the blanks:

- 1) \_\_\_\_\_ animal component is recommended in dry land area.
- 2) In sequential cropping, the preceding crop has considerable influence on the succeeding crop mainly by change \_\_\_\_\_ of the soil condition.
- 3) The phytophagous fish \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ can be combined in a composite fish culture system.
- 4) Two products/enterprises are said to be \_\_\_\_\_, when an increase in the level of one adversely affects the production of the other.

