

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

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|------------|-------------------------|-------|--|---------------|-----------|
| Semester | : IV (New) | Term | : Second | Academic Year | : 2022-23 |
| Course No. | : AGRO 247 | Title | : Farming System and Sustainable Agriculture | | |
| Credits | : 1 (1+0) | | | | |
| Day & Date | : Wednesday, 05.07.2023 | Time | : 09:00 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 Write down the classification of farming systems and highlight on intensive cultivation.
- Q.2 Give the classification of cropping system with suitable examples and explain alley cropping.
- Q.3 Enlist the different indices used for evaluation of cropping system and explain economic indices.
- Q.4 Define sustainable agriculture. State the major components and advantages of sustainable agriculture system.
- Q.5 Discuss the advantages of Integrated Farming System.
- Q.6 Define farming system and write its objectives and scope.
- Q.7 Write short notes on (Any Two):
- a) Relay cropping
 - b) Factors influencing selection of components in farming systems
 - c) Diversified farming
- Q.8 Enlist different components of farming system and describe in detail mushroom production.
- Q.9 Define intercropping. Give its advantages and write requirements for successful intercropping.
- Q.10 Explain the basic concept of LEISA and HEIA.

SECTION 'B'

- Q.11 Define the following terms:
- 1) Monoculture
 - 2) Multiple cropping
 - 3) Sequential cropping
 - 4) Total nomadic
- Q.12 Fill in the blanks:
- 1) In additive series, base crop is sown with _____% of its recommended plant population.
 - 2) In shifting cultivation, intensity of rotation R is less than _____%.
 - 3) The LER value of 1.32 indicates _____% of yield advantage.
 - 4) The example of surface feeder fish is _____.

