MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester	: IV (New)	Term	: Second	Academic Year	: 2021-22
Course No.	: AGRO 247	Title	: Farming System and Sustainable Agriculture		
Credits	: 1 (1+0)				
Day & Date	: Tuesday, 13.09.2022	Time	: 14:00 to 16:00 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 Define farming system. Give the objectives and concept of farming system.

Q.2 What is cropping system? Enlist its classification.

Q.3 Define sustainable agriculture. Give the advantages and disadvantages of sustainable agriculture.

Q.4 Enlist the points to be considered while choosing the enterprises in integrated farming system. Give an example of integrated farming system model for dry lands including various components.

Q.5 Write in brief about the advantages of Integrated Farming System (IFS).

Q.6 Define Low External Input Agriculture (LEIA) and give its impact on crop productivity and sustainable agriculture.

Q.7 List out the different indices used for evaluation of cropping systems and explain economic evaluation.

Q.8 a) Write the characteristics of Integrated Farming System (IFS).

b) Explain in brief the conservation agriculture.

Q.9 Write in brief about resource cycling and flow of energy in farming system.

Q.10 Write short notes on (Any Two):

a) Intercropping b) Diversified farming c) Dairy farming

SECTION 'B'

Q.11 Define the following terms:

1) Cropping scheme
2) Guard crop
3) Multiple cropping
4) Ratoon crop

Q.12 Match the pairs:

'A'	'B'
1) Alley cropping	a) Organised economic unit
2) Complementary enterprise	b) Subabul + Sorghum
3) Farm	c) Agroforestry system
4) Agri-silvipasture	d) Add to the production of each other

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