

Semester	: III (New)	Term	: I	Academic Year	: 2018-19
Course No.	: AGRO 233	Title	: Modern Farming Systems and Sustainable Agriculture		
Credits	: 2(1+1)	Time	: 9.00 to 11.00	Total Marks	: 40
Day & Date	: Tuesday, 13.11.2018				

- 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 sustainable agriculture. What are the principles, advantages and disadvantages of sustainable agriculture?
- Q.2 What is farming system? Explain in brief classification of farming system.
- Q.3 What is intercropping? Explain the types of intercropping.
- Q.4 Define cropping scheme. What are the principles to be followed while formulating a cropping scheme?
- Q.5 What is low cost technology? Explain the factors responsible for low cost technology.
- Q.6 What is precision farming? Write major components of technology used for precision farming.
- Q.7 Explain in detail agronomic components of Integrated Pest Management (IPM).
- Q.8 Define integrated farming system. Describe in detail advantages of Integrated Farming System (IFS).
- Q.9 Define organic farming. What are the limitations on adoption of organic farming on large scale?
- Q.10 Write short notes (Any Two).
  - a) Specialized farming
  - b) Agro forestry
  - c) Crop rotation

SECTION "B"

- Q.11 Fill in the blanks.
  - 1) Planting of succeeding crop before the maturity of preceding crop is called \_\_\_\_\_.
  - 2) Crops of different heights are grown in \_\_\_\_\_ cropping system.
  - 3) One crop variety grown alone in pure stand at normal density is known as \_\_\_\_\_.
  - 4) \_\_\_\_\_ is any direct or indirect harmful effect that one plant has on another through chemical substances.
- Q.12 Match the following pairs.
 

'A'	'B'
1) Agri-silviculture	a) Poultry-Fishery-Cropping
2) Complementary enterprises	b) Crops + Trees
3) Relay cropping	c) Fixes atmospheric nitrogen
4) Legume crop	d) Cotton-Berseem

