



**KERALA AGRICULTURAL UNIVERSITY**  
**B.Sc.(Hons.) Ag. 2016 Admission**  
**V Semester Final Examination-February -2019**

Agro.3106

**Farming system and sustainable agriculture (1+0)**

**Marks: 50**  
**Time: 2 hours**

**I Fill in the blanks (10x1=10)**

- 1 The main objective of mixed farming is .....
- 2 The cultivation of mulberry plants is known as .....
- 3 Low input farming systems seek to minimize the use of .....
- 4 A set of components that are interrelated and interacting among themselves is known as .....
- 5 Hedge row intercropping is also known as .....

**Match the following**

- | A                   | B                |
|---------------------|------------------|
| 6 Farmer's friend   | a Methane        |
| 7 Greenhouse effect | b Urea           |
| 8 Rice paddies      | c Khus grass     |
| 9 Live bunding      | d Global warning |
| 10 Off farm input   | e Earthworm      |

**II Write Short notes on ANY FIVE of the following (5x2=10)**

- 1 Define cropping system and cropping pattern.
- 2 Characteristics of farming systems research.
- 3 Types of Biogas plant.
- 4 Eutrophication.
- 5 Flow chart concept of sustainable agriculture.
- 6 Water logging.
- 7 Greenhouse effect.

**III Answer ANY FIVE of the following (5x4=20)**

- 1 Role of tree components in farming system.
- 2 Adverse effects of modern-high input agriculture.
- 3 LEISA
- 4 Determinants of farming system.
- 5 Significance of integrating crops and livestock.
- 6 Management practices to reduce nitrogen fertilizer pollution.
- 7 Integrated farming systems for different Agro climatic zones.

**IV Write an essay on ANY ONE of the following (1x10=10)**

- 1 Agro forestry – Definitions and various agro forestry systems with suitable examples.
- 2 Write about the evaluation indices of cropping system. Explain about the indices based on land use efficiency and economic viability.

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