A **Reg. No. :** | | | | | | | | | | | | |

Question Paper Code: U3A04

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024

Third Semester

Agriculture Engineering

21UAG304– INTEGRATED FARMING SYSTEMS

(Regulations 2021)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. The most effective cropping system for returning mineral elements to the soil is…… CO1- U

   (a) Crop rotation (b) Relay cropping (c) Alley cropping (d) Mixed cropping

2. The yearly sequence and spatial arrangement of crops including fallow is called…… CO1- U

   (a) Season (b) Cropping system (c) Crop rotation (d) None of the above

3. Which enterprises is most suitable in wet land ecosystem? CO1- U

   (a) Farm pond (b) Goat rearing (c) Fishery (d) Agro forestry

4. Areas where water covers the soil is known as…….. CO1- U

   (a) Dry land (b) Wet land (c) Garden land (d) Fallow land

5. Agrosilvopastoral system is ……. CO1- U

   (a) Crop + tree + pasture (b) Crop + fruit tree (c) Crop + tree (d) Tree + pasture

6. Young age silkworm is known as…… CO1- U

   (a) Chawki (b) Crawler (c) Milky white larva (d) All the above

7. In pig farming side walls of the sheds should be…… CO1- U

   (a) 3 – 4 ft (b) 4 – 5ft (c) 2 – 3 ft (d) 5 – 5.5 ft

8. Which breed cows are good milkers and the bullocks are with good draft work capacity CO1- U

   (a) Sahiwal (b) Nagore (c) Tharparkar (d) Red sindhi

9. The study of fungi is called….. CO1- U

(a) Mycology (b) Plant pathology (c) Mycophagy (d) Fungiculture

10 Vermi compost is a ……. CO1- U

(a) Toxic material (b) Organic biofertilizer

(c) Inorganic fertilizer (d) Synthetic fertilizer

PART – B (5 x 2= 10 Marks)

11 Explain the factors impacting farming systems. CO1- U

12 List out the components of IFS in dry land and give brief details about any two components? CO1- U

13 Write benefits of agro forestry system? CO1- U

14 Write advantages of rabbit farming. CO1- U

15 Give details about vermi composting and its advantages*?* CO1- U

PART – C (5 x 16= 80 Marks)

16 (a) What is farming system, farming system concept, scope of farming system? CO1-U (16)

Or

(b) Explain about cropping pattern, cropping system and different types of cropping system with suitable example? CO1-U (16)

17 (a) What are all the enterprises linked in wet land ecosystem and give brief detail about the enterprises? CO1-U (16)

Or

(b) List out the enterprises linked in garden land ecosystem and give brief detail about the enterprises? CO1-U (16)

18 (a) Explain about different Castes of honey bees. CO1-U (16)

Or

(b) Classify different types of Agro forestry systems. CO1-U (16)

19. (a) Give detail about duck husbandry practices. CO1-U (16)

Or

(b) Analysis the package of management practices recommended for commercial pig farming? CO3-Ana (16)

20. (a) Explain the methods of cultivation for oyster mushroom. CO1-U (16)

Or

(b) Explain about methods of spawn preparation. CO1-U (16)