

A

Reg. No. :

| | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Question Paper Code: R9A72

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2025

Open Elective

Agricultural Engineering

R21UAG972– INTEGRATED FARM MANAGEMENT

(Common to All Engineering Branches)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. 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
2. Which one of the following pairs is not correctly matched? CO1-U
(a) Relay cropping: Sowing pulse in rice crop prior to harvest
(b) Inter cropping: Groundnut+ Cowpea
(c) Mixed cropping: Brinjal
(d) Sole cropping: Sugarcane
3. Which enterprises are most suitable in dry land ecosystem? CO1-U
(a) Sericulture (b) Goat rearing (c) Mushroom (d) Apiary
4. Primary goal of an integrated farming system CO1-U
(a) Maximization of yield (b) Rejuvenation of system
(c) Reducing use of chemical (d) All the above
5. Agrosilvopastoral system is CO1-U
(a) Crop + tree + pasture (b) Crop + fruit tree (c) Crop + tree (d) Tree + pasture
6. Wax gland is present in..... CO1-U
(a) Queen bee (b) Worker bee
(c) Drone bee (d) All the above

7. Identify the correct statement related to stocking density of fish CO1-U
- (a) 40 % surface feeders, 20 % of column feeders, 30 % bottom feeders and 10-20 % weedy feeders
- (b) 20 % surface feeders, 40 % of column feeders, 30 % bottom feeders and 10-20 % weedy feeders
- (c) 30 % surface feeders, 20 % of column feeders, 40 % bottom feeders and 10-20 % weedy feeders
- (d) 10-20% surface feeders, 20 % of column feeders, 30 % bottom feeders and 40 % weedy feeders
8.is the name of female pig CO1-U
- (a) Sow (b) Boar (c) Bull (d) Both (a) and (b)
9. The study of fungi is called..... CO1 – U
- (a) Mycology (b) Plant pathology
- (c) Mycophagy (d) Fungiculture
10. Vermicompost is a CO1 – U
- (a) Toxic material (b) Organic biofertilizer
- (c) Inorganic fertilizer (d) Synthetic fertilizer

PART – B (5 x 2= 10 Marks)

11. Give principles of farming system. CO1 – U
12. What is integrated farming system? CO1 – U
13. List out the different types of bees and their role in enhancing crop yield? CO1 – U
14. Name one strategy to improve milk yield in small-scale dairy integrated CO3 – App
system.
15. Using a neat sketch, show how resource flow in a garden land Integrated CO2 – App
Farming System can be applied to improve farm productivity.

PART – C (5 x 16= 80 Marks)

16. (a) What is farming system, farming system concept, scope of CO1 – U (16)
farming system and factors affecting farming system.
- Or
- (b) Is Vertical Farming a realistic solution for future food needs? CO1 – U (16)
Compare vertical Farming with traditional farming and discuss
the pros and cons of adapting vertical farms in urban areas.

17. (a) List out the components of integrated farming system and give brief detail about any five components. CO1 – U (16)
- Or
- (b) What are all the enterprises linked in wet 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) Explain about young age and late age silkworm rearing methods. CO1 – U (16)
19. (a) Analysis the package of common management practices recommended for dairy farming? CO2 – App (16)
- Or
- (b) If you are going to start rabbit unit what are the common management practices you should know and how would you implement the practices? CO2 – App (16)
20. (a) Evaluate the effectiveness of waste recycling in Crop + Dairy + Biogas + Spawn + Silviculture systems and suggest strategies to enhance efficiency. CO4 - Ana (16)
- Or
- (b) Analyze sustainability of integrating mushroom cultivation in IFS under dry land conditions. CO4 - Ana (16)