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**Question Paper Code: U9A72**

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

Open Elective

Agricultural Engineering

21UAG972-INTEGRATED FARM MANAGEMENT

(Common To All Branches)

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

PART A - (10 x 1 = 10 Marks)

1. In which type of farming system is a dry spell most commonly observed? CO1-U
  - a) Dry farming
  - b) Dry land Farming
  - c) Rainfed Farming
  - d) Irrigated Farming
2. Vertical farming is also known as..... CO1-U
  - a) Stack farming
  - b) Step farming
  - c) Subsistence farming
  - d) All the above
3. SSCM stands for.....in relation to farming systems. CO1-U
  - a) System Specific Crop Management
  - b) Sustainable Supply Chain Management
  - c) Site Specific Crop Management
  - d) Specific Site Crop Management
4. Identify the correct statement related to Integrated Farming Systems (IFS) in garden land. CO1-U
  - a) Farm pond
  - b) Goat rearing
  - c) Piggery
  - d) Fishery

5. ....is the method of inducing roots in a stem which is still attached to the plant CO1-U
- a) Layering b) Budding  
 c) Grafting d) Cutting
6. Wax gland is present in..... CO1-U
- a) Queen bee b) Worker bee  
 c) Drone bee d) All the above
7. 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
8. Identify the incorrect statement related to dairy farming. CO1-U
- a) Walls of the sheds should be 1.5 to 2 meters high.  
 b) Roof should be 3-4 metres high  
 c) Standing space of 2 x 1.05 metre for each animal  
 d) Roof should be 5-6 metres high
9. Vermicompost is a ..... CO1-U
- a) Toxic material b) Organic biofertilizer  
 c) Inorganic fertilizer d) Synthetic fertilizer
10. African earthworm is scientifically called ..... CO1-U
- a) Eudrilluseugeniae  
 b) Eiseniafoetida  
 c) Peronyxexcavatus  
 d) None of the above

PART – B (5 x 2= 10Marks)

11. What are the key factors that impact farming systems, and how do they influence the efficiency and sustainability of agricultural practices? CO1-U
12. What is an integrated farming system (IFS) and how does it function? CO1-U
13. What are forestry and agroforestry, and how do they differ from each other? CO1-U
14. What are the advantages of poultry rearing using a cage system? CO1-U
15. Draw a neat sketch of a mushroom and label its various parts. CO1-U

PART – C (5 x 16= 80Marks)

16. (a) Give details about the following farming system CO1-U (16)
- i. Organic farming
  - ii. Irrigated farming
  - iii. Precision farming
  - iv. Integrated farming system
- Or
- (b) What is farming system, farming system concept, scope of farming system? CO1-U (16)
17. (a) What steps would you take to implement an integrated farming system in a dryland area to address water scarcity and increase income for local farmers? CO3-App (16)
- Or
- (b) If a farmer wants to start an integrated farming system on garden land, how could they effectively combine all enterprises to maximize both income and resource use? CO3-App (16)
18. (a) How to start small scale nursery with the use of different propagation method. CO2-App (16)
- Or
- (b) Differentiate the morphological and internal differences of three castes of honey bees? CO2-App (16)
19. (a) Your dairy farm is expanding, and you need to design new housing facilities to accommodate the growing herd. How would you plan and implement housing and facility improvements to ensure comfort, ventilation, and efficient waste management for the new facilities? CO2-App (16)
- Or
- (b) Write package of common management practices recommended for goat rearing. CO1-App (16)
20. (a) How the farm wastes are recycled in the following units crop + dairy + biogas + spawn + silviculture. CO3-App (16)
- Or
- (b) What are the key steps involved in the production of vermicompost, and how do each of these steps contribute to creating high-quality compost? CO3-App (16)

