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Question Paper Code: U3A04

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

Third Semester

Agricultural Engineering

21UAG304 INTEGRATED FARMING SYSTEM

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. In farming system concept which is comes under process CO1-U
(a) Ploughing (b) Sowing (c) Milking (d) All 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. Identify the incorrect one related to IFS in wet land CO1-U
(a) Farm pond (b) Mushroom (c) Fishery (d) All the above
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. Young age of silkworm is known as _____ CO1-U
(a) Chawki (b) Crawler (c) Milky white larva (d) All the above
6. Protein content in azolla is _____ CO1-U
(a) 25-30% (b) 20-25% (c) 30- 35% (d) 15- 25%
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. _____ 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 as _____ CO1-U
 (a) Mycology (b) Plant pathology (c) Mycophagy (d) Fungiculture
10. African earthworm is scientifically called as _____ CO1-U
 (a) *Eudrillus eugeniae* (b) *Eisenia foetida*
 (c) *Peronyx excavatus* (d) None of the above

PART – B (5 x 2= 10Marks)

11. Explain in shortly the factors impacting farming systems. CO1-U
12. Give the list of IFS components linked in garden land ecosystem and write brief notes about any two of them. CO1-U
13. Enumerate the Agri-silviculture system. CO1-U
14. State the advantages of rabbit farming. CO1-U
15. Give the details of vermicomposting and its advantages? CO1-U

PART – C (5 x 16= 80Marks)

16. (a) Explain the concept of following system in detail CO1-U (16)
 1. Farming system
 2. Farming system concept
 3. Scope of farming system
 Or
- (b) Explain in detail about the following farming system. CO1-U (16)
 1. Organic farming
 2. Irrigated farming
 3. Precision farming
 4. Integrated farming system
 5. Terrace cultivation.
17. (a) List out the enterprises linked in garden land ecosystem and give brief explanation about the enterprises CO1-U (16)
 Or
- (b) What are the Components of IFS in dry land ecosystem? Give a brief explanation about the enterprises CO1-U (16)

18. (a) Illustrate the Classification of different types of Agro forestry systems. CO2-App (16)
- Or
- (b) How to create a small scale nursery with the use of different propagation method? CO2-App (16)
19. (a) Analyze the package of common management practices recommended for dairy farming CO1-U (16)
- Or
- (b) What are the common management practices you should aware while implementing the practices for starting the rabbit unit? CO1- U (16)
20. (a) Explain in detail about the recycling process of crop, dairy, biogas, spawn ,Silviculture. CO2- App (16)
- Or
- (b) Write in detail about running of bio gas plant and working of fixed tent system. CO2-App (16)

