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Reg. No. :

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**Question Paper Code: U9A75**

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

Open Elective

21UAG975 ORGANIC FARMING TECHNOLOGY

(Common To All Engineering Branches)

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

- Biodiversity is important in agriculture because it: CO1-U
  - Increases chemical usage
  - Decreases crop yield
  - Enhances ecosystem stability
  - Reduces market price
- Example of Biotic Factors is \_\_\_\_\_. CO1-U
  - Living things
  - Nonliving
  - Insects
  - Both (a) and (c)
- Collective farming means \_\_\_\_\_. CO1-U
  - Farming by one person
  - Farming by a group of farmers
  - Farming for exports
  - Contract farming
- Integrated Farming System (IFS) promotes: CO1-U
  - Only cash crop production
  - Crop + Livestock + Aquaculture
  - High chemical fertilizer
  - GM crop cultivation
- Scientific name of vermiworm \_\_\_\_\_. CO1-U
  - Eisenia spp
  - Oryza sp
  - Eisenia spp
  - Oryza sp
- Vermi castings also called CO1-U
  - Excreta
  - Farmyard
  - Cowdung
  - Soil

7. Biopesticides may be called \_\_\_\_\_ CO1-U  
 (a) Neem oil (b) Pungam oil  
 (c) Both a & b (d) Monocrotofos
8. Example of Biocontrol agents \_\_\_\_\_ CO1-U  
 (a) Predators (b) Semiochemicals (c) Planting time (d) Both a & b
9. World leader in transgenic technology \_\_\_\_\_ CO1-U  
 (a) USA (b) India  
 (c) Europe (d) Sri Lanka
10. Purpose of organic agriculture is provision of \_\_\_\_\_ CO1-U  
 (a) Good soil (b) Good food  
 (c) Good health (d) All the above

PART – B (5 x 2= 10 Marks)

11. Define ecology in the context of agriculture. CO1-U
12. List any two types of farming. CO1-U
13. What is Panchagavya? CO1-U
14. What is meant by cultural control? CO1-U
15. Define NPOP guidelines. CO1-U

PART – C (5 x 16= 80Marks)

16. (a) How can biodiversity conservation be applied to improve ecosystem services in agriculture? CO2- App (16)  
 Or  
 (b) How would you apply organic carbon improvement strategies to degraded soils? CO2- App (16)
17. (a) How can different classifications of farming be applied to optimize smallholder farms? CO2-App (16)  
 Or  
 (b) Apply farming system concepts to address the disadvantages of modern intensive agriculture. CO2-App (16)

18. (a) How would you apply crop rotation strategies to manage soil nutrients and pests? CO2- App (16)
- Or
- (b) How can Panchagavya be applied to improve crop yield and disease resistance? CO2- App (16)
19. (a) Apply biological control methods to reduce pesticide use in fruit crops. CO4- App (16)
- Or
- (b) Apply cultural practices to develop a seasonal pest and disease management schedule for cereals. CO4- App (16)
20. (a) How can certification agency procedures be applied to ensure compliance with international standards? CO4-App (16)
- Or
- (b) Apply farm planning and budgeting practices to meet certification and export requirements. CO4-App (16)

