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**Reg. No. :**

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**Question Paper Code: 53A06**

B.E./B.Tech. DEGREE EXAMINATION, DEC 2021

Third Semester

Agricultural Engineering

15UAG306 - PRINCIPLES AND PRACTICES OF CROP PRODUCTION

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. The tillage operation done in a land with standing water is called CO1- R  
(a) Puddling                      (b) Harrowing                      (c) Ploughing                      (d) Weeding
2. \_\_\_\_\_ is a secondary tillage implement CO1- R  
(a) Chisel plough                      (b) Disc plough                      (c) Harrow                      (d) Mould board plough
3. \_\_\_\_\_ is a bio fertilizer CO2- R  
(a) Rhizobium                      (b) Potash                      (c) Sodium Nitrate                      (d) Urea
4. \_\_\_\_\_ irrigation method is suitable for tea CO2- R  
(a) Flood                      (b) Trench                      (c) Sprinkler                      (d) Furrow
5. Transplanting is essential for CO3- R  
(a) Moringa                      (b) Paddy                      (c) Cotton                      (d) Groundnut
6. \_\_\_\_\_ pulse crop is suitable for rice fallow pulse crop cultivation also called relay crop. CO3- R  
(a) Maize                      (b) Black gram                      (c) Wheat                      (d) Sorghum
7. Sorghum is a \_\_\_\_ crop CO4- R  
(a) Cash                      (b) Millet                      (c) Horticulture                      (d) Cereal
8. Acid delinting is done in \_\_\_\_\_ seeds CO4- U  
(a) Jatropha                      (b) Sugar beet                      (c) Cotton                      (d) Sunflower

9. High density planting is more popular in CO5- R  
 (a) Papaya (b) Onion (c) Mango (d) Rice
10. Pruning is required for this crop CO5- U  
 (a) Papaya (b) Mango (c) Chillies (d) Tomato

PART – B (5 x 2= 10 Marks)

11. List out three types of tillage CO1- R
12. Explain about fertigation technique. CO2- R
13. Differentiate wet nursery from dry nursery in rice cultivation CO3- U
14. Specify the importance of dethrashing in sugarcane CO4- U
15. Suggest four crops suitable for green house cultivation CO5- U

PART – C (5 x 16= 80 Marks)

16. (a) Explain the external and internal factors that affects crop growth. CO1- U (16)  
 Or
- (b) Describe multicropping and multitier cropping systems with suitable examples. CO1- U (16)
17. (a) Explain about different methods of irrigation. CO2- U (16)  
 Or
- (b) Explain about integrated weed management and integrated pest management. CO2- U (16)
18. (a) Write the package of practices for rice cultivation. CO3- U (16)  
 Or
- (b) Write the package of practices for any two oilseeds. CO3- U (16)
19. (a) Describe the package of practice followed in sugarcane. CO4- U (16)  
 Or
- (b) Describe the package of practice followed in Jatropha and sugar beet. CO4- U (16)
20. (a) Discuss the importance of green house cultivation in Tamil Nadu. CO5- U (16)  
 Or
- (b) Explain the package of practices followed in Mango and Sapota. CO5- U (16)