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Question Paper Code: 92A01

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

Agricultural Engineering

19UAG201 - Introduction to Agricultural Engineering

(Regulation 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. A typical _____ gives an approximate idea about some existing infrastructure of the village CO1- R
(a) Survey (b) watershed (c) Venn (d) Both a & b
2. Which is 'delayed flow' CO1- R
(a) direct runoff (b) base flow (c) interflow (d) none of the above
3. Fruits and vegetables arefoods CO2- R
(a) Perishable (b) Solid (c) Density (d) Gravity
4. The first milk produced after parturition is called? CO2- R
(a) Colostrum (b) Celestial (c) Serial (d) Coliseum
5. Planter is different from seed drill in respect to CO3- R
(a) Power transmission (b) Metering mechanism (c) Furrow opener (d) None of these
6. The seeding behind plough is done by a device known as CO3- R
(a) Seed drill (b) Malobansa (c) Planter (d) Dibbler
7. _____ is a organic matter that can be used as an energy source CO4- R
(a) biomass (b) coal (c) fuel (d) none of these
8. Which are the components of biogasplant _____ CO4- R
(a) digester (b) digester (c) tank (d) all the above
9. which of the following is used for primary packaging of butter CO5- R
(a) oiled paper (b) Kraft paper (c) wax paper (d) parchment paper

10. When crystallization process taken place for a long time the size of crystal as CO5 -R
- (a) small (b) large (c) very small (d) none

PART – B (5 x 2= 10Marks)

11. What are the instruments used for soil water measure? CO1- R
12. Write short notes on Blanching. CO2- R
13. List the types of weeder. CO3- R
14. What is meant biomass gasification? CO4- R
15. What are the types of traditional Storage Structures? CO5- R

PART – C (5 x 16= 80Marks)

16. (a) Explain the components of micro irrigation system with neat sketch. CO1- U (16)
- Or
- (b) Explain the soil-water-plant relationship. CO1- U (16)
17. (a) Explain the butter making process and milk powder production. CO2 -U (16)
- Or
- (b) Explain the flow chart toned and double toned milk. CO2 -U (16)
18. (a) Explain motorized knapsack sprayer with neat sketch. CO3- U (16)
- Or
- (b) Explain standard disc plough with neat sketch and advantages and disadvantages of disc plough. CO3 -U (16)
19. (a) Briefly explain about KVIC biogas plant digester? CO4- U (16)
- Or
- (b) Explain about biodigested slurry & its application? CO4 -U (16)
20. (a) Explain the details about the Destructive Agents in Storage. CO5- U (16)
- Or
- (b) Explain the details about the storage of seeds. CO5- U (16)