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Question Paper Code: 95A02

B.E./B.Tech. DEGREE EXAMINATION, NOV 2023

Fifth Semester

Agriculture Engineering

19UAG502 – AGRICULTURAL FARM MACHINERY

(Regulation 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. Area covered per day of 8 hours by 4 bottoms, 35 cm MB plough if the speed of ploughing is 6km/hr is _____ CO1- App
(a) 672 m³ (b) 6.72 ha (c) 67.2 m³ (d) 67.2 ha
2. An open trench left between two adjacent strips of land after the ploughing is CO1- U
(a) Furrow wall (b) Dead furrow (c) Back furrow (d) Furrow slice
3. Planter is different from seed drill in respect to CO2- U
(a) Power transmission (b) Metering mechanism
(c) Furrow opener (d) None of the above
4. The seeding behind plough is done by a device known as CO2- U
(a) Seed drill (b) Malobansa (c) Planter (d) Dibbler
5. _____ atomizes liquid into droplets. CO3- U
(a) Spray gun (b) Sprayer lance (c) Spray Pump (d) Spray nozzle
6. Spraying using drones is _____ spraying. CO3- Ana
(a) Aero (b) Arial (c) Jet (d) All the above
7. This is not a part of a Thresher _____ CO4- U
(a) Spike tooth (b) Cutter bar (c) Shovel (d) Reel

8. A machine for chopping hay and straw for use as fodder is _____ CO4- U
 (a) Chop cutter (b) Chaff cutter (c) Thresher (d) Shredder
9. One hp is equal to CO5- U
 (a) 246watts (b) 250 watts (c) 746watts (d) 1000watts
10. Person sitting or standing between the machine and its attachments or machine is called as CO5- U
 (a) cut (b) trap (c) crush (d) roll over

PART – B (5 x 2= 10Marks)

11. Difference between Draft and Unit draft. CO1-U
12. What do meant by Calibration? CO2- U
13. List out the functions of sprayers. CO3- U
14. List out the functions of combine harvester-thresher. CO4- U
15. What are all the compulsory tests conducted for OCED approval of tractor? CO5- U

PART – C (5 x 16= 80 Marks)

16. (a) What is the different between Spike and Spring tooth harrow? CO1-U (16)
 Or
 (b) Write short notes on cultivator and explain briefly mounted type cultivator with neat sketch CO1-U (16)
17. (a) Short notes on a.Puddlerb.Bund former c. Soil scoop and d. CO2-U (16)
 Ridger.
 Or
 (b) Explain the working of potato planter with neat sketch. CO2-U (16)
18. (a) Discuss about the classification of sprayers in detail. CO3-U (16)
 Or
 (b) Explain about mist blower cum duster with neat sketch. CO3- U (16)
19. (a) Discuss elaborately about the Combine harvester types, its CO4- Ana (16)
 construction and working?
 Or
 (b) What is a mower? In detail discuss about classification of mower. CO4- Ana (16)

20. (a) Explain the procedure of testing and standard code for testing of tractor performance. CO5- U (16)

Or

(b) What are the factors considered for the selection of farm machines. CO5- U (16)

