

## SECTION-D

**Note:** Long answer type questions. Attempt any three questions out of four questions. 3x10=30

Q.33 Explain the constructional detail of axial flow paddy thresher along with a labeled sketch. Also explain its working principle.

Q.34 Explain the procedure for estimating the cost of using farm machinery. Also explain custom hiring of machinery and its benefits.

Q.35 Describe the constructional details and working principle of a combine harvester. Also explain different adjustments of a combine harvester as per different crops.

Q.36 What do you mean by land leveling? Explain the constructional details and working principle of Laser Land Leveller.

No. of Printed Pages : 4

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## 5th Sem. / Agriculture Engineering

### Subject : Farm Machinery and Implements

Time : 3 Hrs.

M.M. : 100

## SECTION-A

**Note:** Objective type questions. All questions are compulsory (10x1=10)

Q.1 Define Threshing.

Q.2 State Cleaning Efficiency.

Q.3 Define Standardization.

Q.4 Define Land Levelling.

Q.5 Define Registration of Mower.

Q.6 Define Nozzle.

Q.7 Define weed.

Q.8 Define sieve loss.

Q.9 \_\_\_\_\_ is a machine to apply fluids in the form of droplets.

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Q.10 Define Concave clearance.

### SECTION-B

**Note:**Very short answer type questions. Attempt any ten questions out of twelve questions. 10x2=20

Q.11 What is the need of Standardization?

Q.12 What is the function of a Fumigator?

Q.13 What is the function of Wheel hand hoe?

Q.14 What are the objectives of land leveling?

Q.15 What is the function of pressure regulator?

Q.16 Write two precautions for safe use of insecticides.

Q.17 What is the function of puddler?

Q.18 Write down the function of mower.

Q.19 Write two methods of harvesting.

Q.20 Write two precautions for safe use of insecticides?

Q.21 What is the function of Hedge trimmers?

Q.22 Write the function of Post Hole digger.

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### SECTION-C

**Note:**Short answer type questions. Attempt any eight questions out of ten questions. 8x5=40

Q.23 How would you adjust the application rate of fertilizers?

Q.24 List down factors affecting the performance of harvesting machines.

Q.25 What are different types of spray?

Q.26 Explain five points to be considered for selection of farm machinery.

Q.27 Describe the working of a ridger and its adaptability.

Q.28 Describe working principle of vertical conveyor reaper.

Q.29 Enlist different types of horticultural tools.

Q.30 How would you manage losses during harvesting and threshing?

Q.31 List five organizations dealing in testing and standardization of farm machinery.

Q.32 Describe the working of knapsack sprayer.

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