

- Q.27 What are different losses during harvesting and threshing?
- Q.28 What are the factors that affect threshing of crops?
- Q.29 What are different adjustments of mowers?
- Q.30 Describe the procedure for cost estimation of farm machinery.
- Q.31 What are different types of nozzles used on sprayer?
- Q.32 List four organization dealing in testing and standardization of farm machinery.
- Q.33 Describe the working principle of knapsack sprayer.
- Q.34 What are different types of sprays?
- Q.35 Describe working principle of zero till drill.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain the working principle and constructional detail of power thresher alongwith its different components. Also explain safety precautions for the use of thresher.
- Q.37 What are the objectives of Land Levelling? Explain the constructional detail and working principle of Laser land leveller.
- Q.38 Describe the functions and working of fertilizer spreader. How would you adjust the application rate of fertilizers?

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Roll No.

5th Sem / Branch : AGRI Engg. Sub. : Farm Machinery & Implements-II

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 It is the operation of cutting, picking, digging or combination of these operations
- a) Threshing b) Harvesting
- c) Seeding d) Drilling
- Q.2 It is an implement used for churning the soil in standing water.
- a) Bund former b) Ridger
- c) Puddler d) Hoe
- Q.3 It is a lance from which the spray is readily adjustable during the operation.
- a) Spray gun b) Swirl plate
- c) Spray boom d) Nozzle
- Q.4 It is a device to control the pressure of fluid or gas.
- a) Relief valve b) Pressure regulator
- c) Over flow pipe d) Cut off valve

- Q.5 It is an implement for inter cultivation with laterally adjustable tines.
- a) Furrow opener b) Cultivator
c) Harrow d) Plough
- Q.6 It is clearance between cylinder and concave
- a) Concave clearance b) Cylinder clearance
c) Horizontal d) Vertical clearance
- Q.7 The process of detaching grains from the plants
- a) Harvesting b) Threshing
c) Reaping d) Digging
- Q.8 It is an important equipment used in paddy cultivation
- a) Wheel hand hoe b) Paddy weeder
c) Spade d) Khurpa
- Q.9 It is the quantity of crop fed into the inlet of thresher per unit time.
- a) Concave clearance b) Clean grain
c) Feed rate d) Unthreshed grain
- Q.10 It is an equipment used for digging holes for planting trees.
- a) Cage wheel b) Weeder mulcher
c) Post Hole digger d) Land packer

SECTION-B

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

- Q.11 Write two objectives of land levelling.
- Q.12 What is the function of a Duster?
- Q.13 What is the function of Hay bailers?
- Q.14 Write down the function of mower.
- Q.15 Write is the function of Wheel hand hoe?
- Q.16 Write down the functions of Cage wheels.
- Q.17 What is the function of Zero till drill?
- Q.18 Write the function of Post Hole digger.
- Q.19 Write down the function of bund former.
- Q.20 What is the function of Hedge trimmers?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Describe working principle of conveyor reaper.
- Q.22 List different types of horticultural tools.
- Q.23 Describe the working principle of Potato digger.
- Q.24 Write down the precautions for safe use of insecticides.
- Q.25 What are different tools used for interculturing?
- Q.26 Write down the procedure for selection of farm machinery.