

- 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.  $(2 \times 10 = 20)$
- Q.36 Explain the working principle and constructional detail of power thresher alongwith its different components. Also explain seafy 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 fertilizier spreader. How would you adjust the application rate of fertilizers?

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180154/120154

**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  $(10 \times 1 = 10)$

- 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.