

- Q.29 What are the points to be considered for selection of farm machinery?
- Q.30 Describe the working principle of knapsack sprayer.
- Q.31 Describe working principle of reaper.
- Q.32 What are the precautions for safe use of insecticides and pesticide?
- Q.33 List down factors affecting the performance of harvesting machines.
- Q.34 How would you do cost estimation of farm machinery?
- Q.35 List four organizations involved in testing and standardization of farm machinery.

#### SECTION-D

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

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

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**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 The percentage of unthreshed grains from all outlets with respect to total grain input in thresher by weight.
- a) Cylinder Loss      b) Sieve Loss
  - c) Visible Damage loss d) Blower Loss
- Q.2 The process of detaching grains from the plants.
- a) Harvesting      b) Threshing
  - c) Reaping      d) Digging
- Q.3 It is an implement for inter cultivation with laterally adjustable tines.
- a) Furrow opener      b) Cultivator
  - c) Harrow      d) Plough
- Q.4 It is a machine used for making drainage ditches.
- a) Post hole digger      b) Ditcher
  - c) Scraper      d) Hydrodozer

- Q.5 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.6 It is an equipment used for digging holes for planting trees.  
a) Cage wheel b) Weeder mulcher  
c) Post Hole digger d) Land packer
- Q.7 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.8 It is a machine to apply chemicals in dust form.  
a) Sprayer b) Duster  
c) Spray Pump d) Fertilizer Spreader
- Q.9 In which nozzle narrow elliptical spray pattern is formed?  
a) Hollow cone nozzle b) Solid cone nozzle  
c) Fan nozzle d) Pintle nozzle
- Q.10 It cuts and binds the crop simultaneously  
a) Mower b) Reaper  
c) Reaper binder d) Hay Rake

### SECTION-B

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

Q.11 What is the function of Cage wheels?

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- Q.12 What is the use of Post Hole digger.
- Q.13 Write down the function of Hedge trimmers?
- Q.14 What is the function of Zero till drill?
- Q.15 What is the function of Power Weeder?
- Q.16 Write methods of harvesting (any 4).
- Q.17 Write two objectives of land levelling.
- Q.18 What is the use of Hay bailer?
- Q.19 Write down the function of mower.
- Q.20 What is the function of a Duster?

### SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Write down the factors that affect threshing of crops.
- Q.22 What are different tools used for interculturing?
- Q.23 What are different types of nozzles used on sprayer?
- Q.24 Write down different losses during harvesting and threshing.
- Q.25 Describe the working principle of Potato digger.
- Q.26 What are different types of sprays?
- Q.27 List different types of horticultural tools.
- Q.28 Describe different adjustments of mowers (Registration and Alignment).

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