

- Q.27 Describe Registration and alignment of mowers.
- Q.28 Explain the procedure for cost estimation of farm machinery.
- Q.29 What is the procedure for selection of farm machinery?
- Q.30 Describe working principle of vertical conveyor reaper.
- Q.31 List different types of losses during harvesting and threshing.
- Q.32 Describe different types of spray.
- Q.33 What are the safety precautions during use of insecticides and pesticide?
- Q.34 Describe the working principle of power thresher.
- Q.35 Explain the working principle of knapsack sprayer.

#### SECTION-D

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

- Q.36 Describe the working principle of a combine harvester along with its constructional detail. What are different adjustments of a combine harvesters.
- Q.37 Explain the working principle of a Laser Land Leveller along on with its components and their function.
- Q.38 Explain the constructional detail and working principle of a Potato digger.

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**5th Sem / Agri Engg.**

**Subject:- 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 an important equipment used for paddy cultivation.
- a) Wheel hand hoe      b) Paddy weeder  
c) Spade                      d) Khurpa
- Q.2 It is the operation of cutting, picking, digging or combination of these operations
- a) Threshing                      b) Harvesting  
c) Seeding                      d) Drilling
- Q.3 It is a machine to dig holes for tree plantation
- a) Ditcher                      b) Scraper  
c) Hydrodozer                      d) Post hole digger
- Q.4 It is the clearance between beater or cylinder tip and concave.
- a) Concave clearance      b) Cylinder clearance  
c) Horizontal clearance      d) Vertical clearance

- 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 a machine used for making drainage ditches.  
 a) Post hole digger        b) Ditcher  
 c) Scraper                    d) Hydrodozer
- Q.7 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.8 It is an implement used for churning the soil in standing water.  
 a) Bund former            b) Ridger  
 c) Hoe                        d) Puddler
- Q.9 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.10 It is an automatic device to control the pressure of fluid or gas  
 a) Relief valve              b) Pressure regulator  
 c) Over flow pipe          d) Cut-off valve

## SECTION-B

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

- Q.11 What is the function of a reaper?  
 Q.12 Write down the function of bund former.  
 Q.13 Write two precautions for safe use of insecticides.  
 Q.14 What is the use of Hay rakes?  
 Q.15 What is the function of straw combine.  
 Q.16 What is the function of puddler.  
 Q.17 What is the function of a Fumigator?  
 Q.18 Write two benefits of land levelling.  
 Q.19 Write down the function of mower.  
 Q.20 State two methods of harvesting.

## SECTION-C

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

- Q.21 List different types of horticultural tools.  
 Q.22 How would you adjust the application rate of fertilizers?  
 Q.23 Describe different types of nozzles used in sprayer.  
 Q.24 List down factors affecting the performance of harvesting machines.  
 Q.25 Explain the constructional details and working principle of a ridger.  
 Q.26 List different organizations dealing in testing and standardization of farm machinery.