

- Q.31 What are different types of spray?
- Q.32 Describe the working principle of combine harvester in brief.
- Q.33 What are different types of manures used for different crops?
- Q.34 What is the need of standardization?
- Q.35 Describe five points to be considered for selection of farm machinery.

#### Section-D

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

- Q.36 Explain the constructional detail and working principle of Groundnut digger.
- Q.37 Describe the functions and working of fertilizer spreader. How would you adjust the application rate of fertilizers?
- Q.38 Explain the working principle and constructional detail of power thresher along with its different components. Also explain safety precautions for the use of thresher.

No. of Printed Pages : 4  
Roll No. ....

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### 5th Sem., Branch : Agri Subject : Farm Machinery & Implements - II

Time : 3 Hrs.

M.M. : 100

#### SECTION-A

**Note: Multiple type Questions. All Questions are compulsory. (10x1=10)**

- Q.1 The process of detaching grains from the ear heads or from the plants.  
a) Harvesting                      b) Threshing  
c) Reaping                         d) Digging
- Q.2 It cuts and binds the crop simultaneously  
a) Combine                         b) Mower  
c) Sickle                             d) Reaper binder
- Q.3 It is machine to cut grain crops  
a) Reaper                            b) Mower  
c) Sickle                             d) Cutter
- Q.4 The percentage of broken 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.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 implement for inter cultivation in paddy fields  
 a) Hand hoe                      b) Paddy weeder  
 c) Khurpa                        d) Wheel hoe
- Q.7 It is an equipment used digging holes for planting trees.  
 a) Cage wheel                    b) Weeder mulcher  
 c) Post hole digger            d) Land packer
- Q.8 It is machine used for making drainage ditches  
 a) Post hole digger            b) Ditcher  
 c) Scraper                        d) Hydrodozer
- Q.9 It is a machine to apply chemicals in the form of dust.  
 a) Sprayer                        b) Duster  
 c) Spray Pump                 d) Fertilizer Spreader
- Q.10 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

#### Section-B

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

- Q.11 Write down the function of mower.
- Q.12 What is the function of Zero till drill?
- Q.13 What is the use of Hay rakes?
- Q.14 Write the function of Post Hole digger.
- Q.15 Write two benefits of land levelling.

- Q.16 Write two precautions for safe use of insecticides.
- Q.17 What is the function of a reaper?
- Q.18 What is the use of Pruning shears?
- Q.19 State two methods of harvesting?
- Q.20 What is the function of Powerweeder?

#### Section-C

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

- Q.21 What are different types of losses during harvesting and threshing?
- Q.22 Describe the working principle of Axial flow paddy thresher.
- Q.23 Enlist different tools used for inter culturing.
- Q.24 What are different types of nozzles used in sprayer?
- Q.25 Describe the working principle of knapsack sprayer.
- Q.26 Explain the procedure for cost estimation of farm machinery.
- Q.27 Describe the working of a ridger along with its adaptability?
- Q.28 List five organizations dealing in testing and standardization of farm machinery.
- Q.29 Describe the working of subsoiler.
- Q.30 Describe the working principle of Horizontal Conveyor Reaper.