

**5th Sem. / Agriculture Engg.  
Subject : Farm Machinery & Implements - II**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note: Multiple Choice Questions. All Questions are compulsory. (6x1=6)**

Q.1 It is an implement used for churning the soil in standing water. (CO3)

- a) Bund former
- b) Ridger
- c) Puddler
- d) Hoe

Q.2 The percentage of unthreshed grains from all outlets with respect to total grain input in thresher by weight (CO4)

- a) Cylinder Loss
- b) Sieve Loss
- c) Visible damage loss
- d) Blower Loss

Q.3 A narrow elliptical spray pattern is formed by which type of nozzle. (CO2)

- a) Hollow cone nozzle
- b) Solid cone nozzle
- c) Fan nozzle
- d) Pintle nozzle

Q.4 It is an important equipment used in paddy cultivation (CO3)

- a) Wheel hand hoe
- b) Paddy weeder
- c) Spade
- d) Khurpa

- Q.5 It is a machine to dig holes for tree plantation (CO1)  
 a) Ditcher                      b) Scraper  
 c) Hydrodozer                d) Post hole digger
- Q.6 The threshed grain received from all outlets with respect to total grain input. (CO4)  
 a) Cleaning Efficiency    b) Threshing Efficiency  
 c) Sieve loss                d) Cylinder loss

### **Section-B**

**Note:** Objective/Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 What is the function of straw combine? (CO4)
- Q.8 Give the function of Hedge trimmers? (CO3)
- Q.9 What is the function of Paddy weeder? (CO1)
- Q.10 State the objectives of land levelling. (CO5)
- Q.11 Write two precautions for safe use of insecticides (CO2)
- Q.12 What is the function of a reaper? (CO5)

### **Section-C**

**Note:** Short answer type Question. Attempt any eight questions out of Ten Questions. (8x4=32)

- Q.13 What are different tools used for interculturing? (CO1)
- Q.14 Describe Registration and alignment of mowers? (CO3)
- Q.15 Describe different types of nozzles used in sprayer. (CO2)

- Q.16 What are the factors that affect harvesting of crops? (CO4)
- Q.17 Describe working principle of conveyor reaper. (CO3)
- Q.18 List four organizations engaged in testing of farm machinery. (CO5)
- Q.19 List different types of horticultural tools. (CO4)
- Q.20 What are the safety precautions during use of insecticides and pesticide? (CO2)
- Q.21 What is the procedure for selection of farm machinery? (CO5)
- Q.22 Describe the working principle of knapsack sprayer. (CO2)

### **Section-D**

**Note:** Long answer questions. Attempt any two question out of three Questions. (2x8=16)

- Q.23 Explain the working principle and constructional detail of power thresher along with its different components. Also explain safety precautions for the use of thresher. (CO4)
- Q.24 Explain the constructional detail and working principle of a Potato digger. (CO3)
- Q.25 Explain the constructional detail and working principle of Laser land Leveller. (CO5)