

- 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 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.
- Concave clearance
 - Clean grain
 - Feed rate
 - Unthreshed grain
- Q.6 It is a machine used for making drainage ditches.
- Post hole digger
 - Ditcher
 - Scraper
 - Hydrodozer
- Q.7 It is a lance from which the spray is readily adjustable during the operation.
- Spray gun
 - Swirl plate
 - Spray boom
 - Nozzle
- Q.8 It is an implement used for churning the soil in standing water.
- Bund former
 - Ridger
 - Hoe
 - Puddler
- Q.9 The percentage of unthreshed grains from all outlets with respect to total grain input in thresher by weight.
- Cylinder Loss
 - Sieve Loss
 - Visible damage loss
 - Blower Loss
- Q.10 It is an automatic device to control the pressure of fluid or gas
- Relief valve
 - Pressure regulator
 - Over flow pipe
 - Cut-off valve

SECTION-B

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

- What is the function of a reaper?
- Write down the function of bund former.
- Write two precautions for safe use of insecticides.
- What is the use of Hay rakes?
- What is the function of straw combine.
- What is the function of puddler.
- What is the function of a Fumigator?
- Write two benefits of land levelling.
- Write down the function of mower.
- State two methods of harvesting.

SECTION-C

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

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