

- 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?

No. of Printed Pages : 4
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180154/120154

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?

(2)

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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).

(3)

180154/120154