

- Q.30 What are different types of nozzles used in sprayer?
 Q.31 List down factors affecting the performance of harvesting machines.
 Q.32 Describe the working principle of a ridger.
 Q.33 What are the safety precautions during use of insecticides and pesticide?
 Q.34 List different organizations dealing in testing and standardization of farm machinery.
 Q.35 Describe Registration and alignment of mowers.

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 working principle of a Laser land Leveller alongwith its components and their function.
 Q.37 Explain the constructional detail and working principle of a Potato digger.
 Q.38 Describe the working principle of a combine harvester alongwith its constructional detail. What are different adjustments of a combine harvester?

No. of Printed Pages : 4
Roll No.

180154/120154

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 implement used for churning the soil in standing water.
 a) Bund former b) Ridger
 c) Hoe d) Puddler
 Q.2 In which nozzle narrow elliptical spray patterns if formed?
 a) Hollow cone nozzle b) Solid cone nozzle
 c) Fan nozzle d) Pintle nozzle
 Q.3 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
 Q.4 It is clearance between beater or cylinder tip and concave.
 a) Concave clearance b) Cylinder clearance
 c) Horizontal clearance d) Vertical clearance

- Q.5 It is a machine to apply chemicals in dust form.
a) Sprayer b) Duster
c) Spray pump d) Fertilizer spreader
- Q.6 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.7 It is a machine to cut herbage and grass crops.
a) Reaper b) Mower
c) Sickle d) Cutter
- Q.8 It is a machine used for making drainage ditches.
a) Post hole digger b) Ditcher
c) Scrapper d) Hydrodozer
- Q.9 It is a machine to dig holes for tree plantation.
a) Ditcher b) Scraper
c) Hydrodozer d) Post hole digger
- Q.10 It is an important equipment used for paddy cultivation.
a) Wheel hand hoe b) Paddy weeder
c) Spade d) Khurpa

SECTION-B

Note: Objective type questions. All questions are compulsory. $(10 \times 1 = 10)$

- Q.11 Write down the function of puddler.

(2)

180154/120154

- Q.12 Write two benefits of land levelling.
Q.13 What is the function of Power weeder?
Q.14 Write four methods of harvesting.
Q.15 What is the function of a reaper?
Q.16 Write two precautions for safe use of insecticides.
Q.17 What is the function of straw combine?
Q.18 What is the use of Hay rakes?
Q.19 What is the use of Pruning shears?
Q.20 What is the function of a Fumigator?

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. $(12 \times 5 = 60)$
- Q.21 Describe the working principle of power thresher.
Q.22 Write down the procedure for selection of farm machinery.
Q.23 List different types of losses during harvesting and threshing.
Q.24 Describe the procedure for cost estimation of farm machinery.
Q.25 What are different types of spray?
Q.26 Describe working principle of conveyor reaper.
Q.27 Describe the working principle of knapsack sprayer.
Q.28 Write down the procedure to adjust the application rate of fertilizers.
Q.29 List different types of horticultural tools.

(3)

180154/120154