

- Q.25 What are the different adjustments of mowers?
- Q.26 Give the list of different horticultural tools.
- Q.27 Write down the procedure to calibrate a seed drill.
- Q.28 Describe working principle of zero till drill.
- Q.29 Describe the working principle of foot sprayer.
- Q.30 Describe any four types of nozzles used in sprayer.
- Q.31 Describe the procedure for cost estimation of farm machinery.
- Q.32 Describe the working principle of power thresher.
- Q.33 State different organizations dealing in testing of farm machinery.
- Q.34 Describe the working principle of a ridger.
- Q.35 How would you classify different types of sprays?

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain the constructional detail and working principle of a Potato digger.
- Q.37 Describe the components and working principle of a combine harvester. What are different adjustments of a combine harvesters?
- Q.38 What do you mean by Land Levelling? Explain the working principle of a Laser Land Leveller along with its components and their function.

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5th Sem / Agri **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 the clearance between beater or cylinder tip and concave.
 a) Concave clearance b) Cylinder clearance
 c) Horizontal clearance d) vertical clearance
- Q.2 The operation of cutting, picking, digging is called
 a) Threshing b) Harvesting
 c) Seeding d) Drilling
- Q.3 The machine used for spreading of fertilizer and granular insecticides
 a) Fertilizer Distributor b) Fertilizer Spreader
 c) Sprayer d) Duster
- Q.4 It is a machine to cut herbage and grass crops.
 a) Reaper b) Mower
 c) Sickle d) Cutter

- Q.5 The machine for digging holes for tree plantation
a) Ditcher b) Scraper
c) Hydrodozer d) Post hole digger
- Q6 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
- Q.7 The discharge of spray is Less than 5 Litres spray /ha
a) High Volume b) Low Volume
c) Ultra Low volume d) Foam spray
- Q8 It is an implement used for churning the soil in standing water.
a) Bund former b) Ridger
c) Puddler d) Hoe
- Q.9 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.10 It is a machine of generate and distribute gases or smoke
a) Seed dresser
b) Fumigator
c) Flame gun
d) Power sprayer cum duster

SECTION-B

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

- Q.11 Write down the function of Wheel hand hoe.
- Q.12 What is the function of Pruning shears?
- Q.13 Write two precautions for safe use of insecticides and pesticides.
- Q.14 Write down the functions of a reaper.
- Q.15 What is the use of puddler.
- Q.16 What is the use of land levelling?
- Q.17 Write down the function of bund former.
- Q.18 What is the function of Hay Rakes?
- Q.19 What is the use of Fumigator?
- Q.20 What is the function of straw combine?

SECTION-C

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

- Q.21 Describe working principle of conveyor reaper.
- Q.22 Write down the procedure for selection of machinery used on farm.
- Q.23 List different types of losses during harvesting and threshing.
- Q.24 What precautions should be taken for safe use of insecticides?