

SECTION-D

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

- Q.23 What is Harrowing? Describe the constructional details and working principle of Disc harrow.
- Q.24 Describe the concept of balancing. What are different methods of balancing?
- Q.25 Describe the constructional detail and working principle of potato planter. Also state how planter is different from seed drill?

No. of Printed Pages : 4

220133

Roll No.

3rd Sem / Agriculture

Subject:- Farm Machinery and Implements - I

Time : 3Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Disc angle varies from
- a) 20 to 25° b) 25 to 30°
- c) 30 to 35° d) 40 to 45°
- Q.2 The method of planting already prepared seeds in field
- a) Transplanting b) Seeding
- c) Broadcasting d) Drilling
- Q.3 The mechanical manipulation of soil to provide favorable conditions for crop production is
- a) Ploughing b) Tillage
- c) Interculturing d) Harrowing

Q.4 The plough used to cut through hard soils by means for a no. of narrow tynes.

- a) Chisel Plough b) Disc Plough
- c) Subsoiler d) M.B. Plough

Q.5 The machine/ implement used for sowing larger seeds.

- a) Seed drill b) Planter
- c) Ridger seeder d) Digger

Q.6 The implement used for intercultivation

- a) Wheel hand hoe b) Plough
- c) Ridger seeder d) Digger

SECTION-B

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

Q.7 Name two types of plough accessories.

Q.8 Give two benefits of using rotavator.

Q.9 Name two types of couplings used in machinery.

Q.10 Name two types of harrows

Q.11 Define Disc angle.

Q.12 What is the use of three point linkage?

(2)

220133

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Describe different methods of sowing.

Q.14 What are the different methods of power transmission in farm machines?

Q.15 What is the difference between seed drill and planter?

Q.16 Describe different types of hitching systems.

Q.17 What are the harmful effects of vibrations and their remedies in machines?

Q.18 Give two differences between mould board plough and disc plough.

Q.19 What are different types of seed metering mechanisms used in seed drill?

Q.20 Describe the working of strip till drill machines.

Q.21 Define disc angle and tilt angle of disc plough.

Q.22 Describe the working principle of potato digger.

(3)

220133