

Q.24 Explain the constructional detail and working principle of Disc Harrow along with different components and their function. (CO5)

Q.25 Describe the concept of vibrations. what are causes of vibration, their harmful effects and remedies ? (Co2)

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3rd Sem. / Agriculture Engg.

Subject : Farm Machinery & Implements - I

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

Q.1 A method of planting in which row to row and plant to plant distance is uniform (CO6)

- a) Dibbling b) Drilling
- c) Check row planting d) Seeding

Q.2 A machine used for sowing without any extra tillage operation. (CO5)

- a) Seed drill b) strip till drill
- c) no till drill d) Zero till drill

Q.3 The implement used for interculturing (CO4)

- a) Hand hoe b) Plough
- c) Ridger seeder d) Digger

Q.4 The rotating shafts supported on some supports which allow it to rotate with minimum friction. (CO3)

- a) Shaft b) Joints
- c) Bearing d) None of these

- Q.5 For transmission of power from one shaft to another, the drive used is (CO1)
- a) Belt drive b) Rope drive
c) Gear drive d) Chain drive
- Q.6 To and fro motion of a particle about a fixed point (CO2)
- a) Balancing b) Vibration
c) Transmission d) Structure

SECTION-B

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

- Q.7 Define Disc angle (CO5)
- Q.8 Define Machine. (CO1)
- Q.9 Name two types of gears used in machinery. (CO1)
- Q.10 What is the use of three point linkage? (CO4)
- Q.11 What is the need of balancing? (CO2)
- Q.12 Name two types of bearings used in agriculture (CO3)

SECTION-C

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

- Q.13 What are different types of seed metering mechanisms used in planter. (CO6)
- Q.14 What are different types of balancing? (CO2)

- Q.15 What are different methods of power transmission in farm machines? (CO1)
- Q.16 What are different methods of seeding? (CO6)
- Q.17 What are the objectives of tillage? (CO5)
- Q.18 Describe the working of cultivator. (CO4)
- Q.19 What are the advantages of rotavator over other implements? (CO5)
- Q.20 Describe bearing and pipe joints used in machinery. (CO3)
- Q.21 Give classification of implements according to field operations. (CO4)
- Q.22 Give any three differences between seed drill and planter. (CO6)

SECTION-D

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

- Q.23 a) Describe the functions and use of shaft coupling used in machinery. (CO 3)
- b) Describe farm mechanization and its limitations.