

SECTION-D

No. of Printed Pages : 4

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Roll No.

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

Q.23 Describe classification of Metals and their alloys and non metals used in industry.

Q.24 a) Write down four causes and effects of corrosion?
b) Enlist four major components of air conditioner with their functions.

Q.25 Describe different components of Hydrological Cycle along with its diagram.

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2nd Year / Agri

Subject : Basics of Agriculture Engineering

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

Q.1 The removal of unwanted plants from the field.

- a) Tillage
- b) Sowing
- c) Weeding
- d) Planting

Q.2 The property of fluid by virtue of which it offers resistance to movement of one layer of fluid over adjacent layer

- a) Porosity
- b) Density
- c) Viscosity
- d) Stiffness

Q.3 The ratio of maximum load to original cross section area is

- a) Yield strength
- b) Tensile strength
- c) strength
- d) impact strength

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- Q.4 The process of applying chemical in the liquid form is
- a) Dusting b) Seeding
c) Planting d) Spraying
- Q.5 The production of fruits, vegetables, flowers, ornamental plants and spices is _____.
- a) Horticulture b) Agronomy
c) Forestry d) Home Science
- Q.6 Manometer is used to measure
- a) Velocity b) Pressure
c) Discharge d) All of the above

SECTION-B

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

- Q.7 Define Tillage
- Q.8 Define Levelling.
- Q.9 Name any two field operations.
- Q.10 Name any two sources of irrigation water.
- Q.11 Name any two Post Harvest operations.
- Q.12 Define Water logging .

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SECTION-C

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

- Q.13 List different post harvest operations in agriculture industries with their function.
- Q.14 Write a short note on soil water conservation.
- Q.15 Define heat energy . What are different modes of heat transfer?
- Q.16 List any four field operation required for crop production along with implement used for them.
- Q.17 Write any four applications of refrigeration and air conditioners in agriculture.
- Q.18 Describe any two methods of contouring.
- Q.19 Describe any four mechanical properties of metals .
- Q.20 What is meant by kinematics? Describe any two types of fluid flow in brief.
- Q.21 State different types of renewable sources of energy.
- Q.22 Write difference between steady and unsteady flow.

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