

SECTION-D

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

Q.23 What do you mean by corrosion? What are its causes, effects and how would you control corrosion? (CO3)

Q.24 a) Define Dumpy Level and give two uses of it . (CO2)

b) Enlist four major components of air conditioner with their functions. (CO4)

Q.25 Describe Hydrological Cycle along with its diagram and components. (CO1)

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Roll No.

2nd Sem / Agri

Subject : Basics of Agricultural Engineering

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

Q.1 The ratio of the maximum load to original cross sectional area is (CO3)

- a) Yield strength b) Tensile strength
c) Strength d) Impact strength

Q.2 The type of flow in which the liquid particles move in layers without causing any interference to each other (CO5)

- a) Laminar flow b) Compressible flow
c) Uniform flow d) Unsteady flow

Q.3 The production of fruits, vegetables, flowers, ornamental plants and spices in _____. (CO1)

- a) Horticulture b) Agronomy
c) Forestry d) Home Science

- Q.4 The measurement instrument utilized in surveying to determine horizontal and vertical angles with the tiny low telescope. (CO2)
- a) Dumpy Level b) Levelling Staff
c) Theodolite d) Line Ranger
- Q.5 The transfer of heat through solids take place by the condition (CO4)
- a) Convection b) Conduction
c) Radiation d) Entropy
- Q.6 The process of applying chemical in the powder form is (CO1)
- a) Spraying b) Dusting
c) Planting d) Seeding

SECTION-B

- Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)
- Q.7 Define Harvesting (CO1)
- Q.8 Define Ductility (CO3)
- Q.9 Define Contouring (CO2)
- Q.10 Write two applications of hydraulics. (CO5)
- Q.11 Give examples of any two metals. (CO3)
- Q.12 Write two components of refrigerator. (CO4)

SECTION-C

- Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)
- Q.13 Write down four objectives of tillage. (CO1)
- Q.14 State any four post-harvest operations in processing agricultural products? (CO1)
- Q.15 Write a short note on Rainwater harvesting. (CO1)
- Q.16 Define Levelling. Also state the use of Levelling. (CO2)
- Q.17 What is meant by kinematics? Describe any four types of fluid flow in brief. (CO5)
- Q.18 Give four differences between potential energy and kinetic energy. (CO5)
- Q.19 What are different modes of heat transfer? State with examples. (CO4)
- Q.20 Write down four factors affecting mechanical properties. (CO3)
- Q.21 Write any four applications of refrigeration and air conditioners in agriculture. (CO4)
- Q.22 Explain classification of metals and non metals used in industry. (CO3)