

## **SECTION-D**

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

Q.23 What do you mean by Hydrological Cycle? Explain with diagram. (CO1)

Q.24 a) Write four applications of refrigeration and air conditioners in agriculture (CO4)

b) Write down four factors affecting mechanical properties (CO3)

Q.25 List different properties of fluids. Describe any four of them in brief. (CO5)

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**2nd Sem. / Branch: Agriculture Engg.**

**Subject : Basics of Agriculture Engg**

Time : 3 Hrs.

M.M. : 60

## **SECTION-A**

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

Q.1 The artificial application of water to the field for raising crop (CO5)

- a) Infiltration
- b) Evaporation
- c) Irrigation
- d) Runoff

Q.2 Mass per unit volume of the material is (CO3)

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

Q.3 The weight per unit volume of a liquid at a standard temperature and pressure. (CO5)

- a) Specific weight
- b) Specific gravity
- c) Weight
- d) None of these

Q.4 The property of a material by which they can be beaten into thin sheets (CO3)

- a) Brittleness      b) Malleability
- c) Fatigue          d) Ductility

Q.5 The leveling instrument used to locate the points in same horizontal plane. (CO2)

- a) Levelling staff    b) Theodolite
- c) Dumpy level       d) Line Ranger

Q.6 The ability of a given material to conduct/transfer heat (CO4).

- a) Conduction
- b) Thermal conductivity
- c) Electrical conductivity
- d) Convection

## SECTION-B

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

Q.7 Define Threshing. (CO1)

Q.8 Define Contouring (CO2)

Q.9 Name any pressure measuring device. (CO5)

Q.10 Write any two methods pf levelling. (CO2)

Q.11 Write any two physical properties. (CO3)

Q.12 Write any two components of refrigerator. (CO4)

## SECTION-C

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

Q.13 State four types of field operations required for raising a crop. (CO1)

Q.14 Enlist any four unit operations in agro processing industries with their function. (CO1)

Q.15 What is the use of Contours. Enlist any two methods of contouring. (CO2)

Q.16 Describe Dumpy Level and its uses. (CO2)

Q.17 Describe any four mechanical properties of metals. (CO3)

Q.18 Write down four causes and effects of corrosion? (CO3)

Q.19 What are different types of renewable sources of energy? (CO1)

Q.20 Write four difference between Laminar flow and turbulent flow? (CO5)

Q.21 What do you mean by soil and water conservation? (CO1)

Q.22 What are different modes of heat transfer? Explain with examples. (CO4)