

SECTION-D

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

- Q.23 Define corrosion. What are the causes and effects of corrosion? Also write down any four controls and prevention methods of corrosion. (CO3)
- Q.24 Explain the different modes of heat transfer with example. (CO3)
- Q.25 a) Define irrigation. Also write down different methods of irrigation. (CO1)
- b) What do understand by kinematics? Write types of fluid flow. (CO5)

No. of Printed Pages : 4
Roll No.

220124

Sem. 2nd/ Agri

Sub. : 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 ability of material to be drawn from a large section to a small section such as in wire drawing is called _____. (CO3)
- a) Ductility b) Plasticity
c) Toughness d) Elasticity
- Q.2 The ratio of tensile stress and tensile strain is (CO3)
- a) Hook's Law b) Bulk modulus
c) Young's Modulus d) Poisson's Ratio
- Q.3 A flow in which the velocity of flow at a given instant of time changes from one point to other. (CO5)
- a) Steady b) Unsteady
c) Uniform d) Non-Uniform

Q.4 The process of creating a flat and even surface on a field after ploughing or tilling is called _____. (CO1)

- a) Surveying b) Tillage
- c) Leveling d) Contouring

Q.5 The process of gathering mature crops from the fields after they have reached their full growth is called _____. (CO1)

- a) Harvesting b) Threshing
- c) Irrigation d) Dusting

Q.6 SI Unit of thermal conductivity (CO4)

- a) Square meters per second
- b) Watts per meter-kelvin
- c) Joule (J)
- d) None of these

SECTION-B

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

Q.7 One tonne of refrigeration is equal to _____. (CO4)

Q.8 Give any two example of renewable sources of energy. (CO1)

Q.9 Give any use of contours. (CO2)

(2)

220124

Q.10 Define creep. (CO3)

Q.11 Define discharge. (CO5)

Q.12 Define weeding. (CO1)

SECTION-C

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

Q.13 Enlist various sources of power used at agricultural farm. (CO1)

Q.14 Define contouring and its methods. (CO2)

Q.15 Discuss about factors affecting mechanical properties. (CO3)

Q.16 Write atleast four applications of refrigerators and air conditioners in agriculture. (CO4)

Q.17 Differentiate between cohesion and adhesion. (CO5)

Q.18 Explain Hook's Law. (CO3)

Q.19 Enlist elements of weather. (CO1)

Q.20 Enlist different pressure measuring devices. (CO5)

Q.21 Define Dumpy Level. Also enlist uses of dumpy level. (CO2)

Q.22 Discuss about different objectives of post-harvest technology. (Co1)

(3)

220124