

Q.20 What are different types of pressure measuring devices?

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Q.21 What are causes, effects and control corrosion?

1st Year / Agriculture Engg.

Q.22 What is the difference between Shear and volumetric strain?

Subject:- Basics of Agriculture Engg.

Time : 3Hrs.

M.M. : 60

SECTION-D

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

Q.23 What are different physical properties of metals and alloys? Describe any four.

SECTION-A

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

- Q.24 What do you mean by Kinematic of fluids? Briefly describe type of fluid flow.
- Q.25 Define corrosion. What are its causes, effects and how would you control corrosion?

Q.1 Manometer is used to measure

- a) Velocity at a point b) Pressure at a point
- c) Discharge of fluid d) All of the above

Q.2 The ability of material to be drawn from a large section to a small section such as in wire drawing.

- a) Toughness b) Ductility
- c) Elasticity d) Plasticity

Q.3 The property of the material which enables it to regain its original shape after deformation is

- a) Plasticity b) Elasticity
- c) Stiffness d) Ductility

Q.4 Mass per unit volume of the material is

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

Q.5 The process of heat transfer in which heat flows from a hotter to cold body in the form of electromagnetic waves.

- a) Conduction b) Radiation
- c) Convection d) Thermal radiation

Q.6 The ratio of the maximum load to original sectional area is

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

SECTION-B

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

Q.7 Define kinetic energy.

Q.8 Define Vapour pressure.

Q.9 Define Elasticity.

Q.10 Define Young's Modulus.

Q.11 Define Atmospheric pressure.

Q.12 Define Specific gravity.

SECTION-C

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

Q.13 What are the factors affecting mechanical properties of materials?

Q.14 What are the different modes of heat energy transfer?

Q.15 Describe different types of stresses.

Q.16 Write down the practical applications of hydraulics.

Q.17 What is the difference between Laminar flow and turbulent flow?

Q.18 Enlist the applications of refrigeration and air conditioners in agriculture.

Q.19 Define Surface tension and viscosity.