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3rd Sem / Civil Engg./ Brick Tech./ Constr. Mgmt/

Highway Engg.

Subject : Fluid Mechanics

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1 = 10)

Q.1 Kinematic viscosity is defined as equal to (CO2)

- a) Dynamic viscosity /Density
- b) Dynamic viscosity x Pressure
- c) Dynamic viscosity x Density
- d) Pressure x Density

Q.2 Poise is the unit of (CO2)

- a) Viscosity
- b) Mass density
- c) Kinematic viscosity
- d) Velocity gradient

Q.3 The resultant of hydrostatic force acts through a point known as (CO3)

- a) Centre of pressure
- b) Centre of gravity
- c) Centre of buoyancy
- d) None of these

Q.4 Gauge pressure at a point is equal to (CO4)

- a) Vacuum pressure + Absolute pressure
- b) Absolute pressure - Atmospheric Pressure
- c) Absolute pressure + Atmospheric pressure
- d) None of these

Q.5 Bernoulli's theorem deals with the law of conservation of (CO5)

- a) Momentum
- b) Energy
- c) Mass
- d) None of these

Q.6 Continuity equation can take the form (CO5)

- a) $A_1 V_1 = A_2 V_2$
- b) $\rho A_1 V_1 = A_2 V_2$
- c) $\rho_1 A_1 V_1 = \rho_2 A_2 V_2$
- d) $A_1 V_1 = A_2 V_2 \rho_1 / \rho_2$

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Q.7 The flow rate through a circular pipe is measured by (CO7)

- a) Notch
- b) Pitot-tube
- c) Venturimeter
- d) None of these

Q.8 The flow in open channel is turbulent if the Reynolds number is (CO8)

- a) Less than 500
- b) Less than 2000
- c) 2000
- d) None of these

Q.9 Notch is device used for measuring (CO8)

- a) Rate of flow through a small channel
- b) Rate of flow through pipes
- c) Velocity through a pipe
- d) Velocity through a small channel

Q.10 A turbine is a device which converts (CO9)

- a) Kinetic energy into mechanical energy
- b) Mechanical energy into hydraulic energy
- c) Hydraulic energy into mechanical energy
- d) Electrical energy into mechanical energy

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1 = 10)

Q.11 A fluid which possesses _____ is known as real fluid. (CO1)

Q.12 The pressure energy per unit weight is known as (CO3)

Q.13 Vacuum Pressure is also called (CO4)

Q.14 The principle of continuity is based on the law of (CO5)

Q.15 Kinematic viscosity is the ratio between viscosity and density of fluid. (CO2)

Q.16 Pitot tube is used for the measurement of (CO6)

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