

- No. of Printed Pages : 4
Roll No.

3rd Sem / Plastic Tech.
Subject:- Fluid Flow / Viscous Flow of Fluids /
Unit OP-I

M.M. : 100

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

- Q.1 Piezometer measures _____.
- a) Gauge pressure b) Absolute pressure
c) vacuum pressure d) None of the above
- Q.2 Manometer is used to measure
- a) Velocity at a point in a fluid
b) Pressure at a point in a fluid
c) Discharge of fluid
d) None of these
- Q.3 Reynolds number signifies the ratio of _____.
- a) gravity forces to viscous forces
b) inertial forces to viscous forces
c) inertia forces of gravity forces
d) buoyant forces to inertia forces
- Q.4 The centrifugal pump has varying flow depending on the _____
- a) Pressure b) Static lift
c) Volume d) Flow rate

- Q.5 When the flow in an open channel is gradually varied, the flow is said to be
- Net Steady uniform flow
 - Net Steady non-uniform flow
 - Unsteady uniform flow
 - Unsteady non-uniform flow
- Q.6 Reciprocating pump is a _____
- Negative displacement pump
 - Positive displacement pump
 - Diaphragm pump
 - Emulsion pump
- Q.7 When the velocity of flow increases, the pressure _____.
- Decreases
 - increases
 - remain constant
 - Cannot be predicted
- Q.8 The flow of liquid is said to be _____ when the path of individual particles do not cross one another.
- Laminar
 - turbulent
 - steady
 - unsteady
- Q.9 Bernoulli's theorem may be applied to _____.
- Pitot tube
 - Orifice meter
 - Venturimeter
 - All of these
- Q.10 Venturimeter is used to measure
- Discharge
 - velocity at a point
 - Viscosity
 - average velocity

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SECTION-B

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

- Q.11 Differential manometer measures _____ two points.
- Q.12 Barometer is used to measure _____.
- Q.13 An ideal fluid is a fluid which is _____.
- Q.14 The flow in a pipe is laminar if Reynold's number is _____ then 2000.
- Q.15 Venturimeter is used to measure _____.
- Q.16 Notch is device used in measuring _____ through small channel.
- Q.17 Continuity equation deals with the law of conservation of _____.
- Q.18 Reynold's number is given by _____.
- Q.19 Bernoulli's theorem is based on _____ principle.
- Q.20 For small discharge at high pressure _____ pump is preferred.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 State difference between laminar and turbulent flow
- Q.22 State Newton's law of viscosity.
- Q.23 State and prove continuity equation.
- Q.24 Explain various types of losses in pipes
- Q.25 Explain basic principle of venturimeter working
- Q.26 State Bernoulli's theorem and its limitations.
- Q.27 Define pumps and how are they classified?

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