



[Fluid Mechanics And Machinery Pdf Download](#)

Registration No :

Total Number of Pages : 02

B.Tech
PAU3I102

3rd Semester Regular / Back Examination 2018-19

FLUID MECHANICS & MACHINERY

BRANCH : AUTO

Time : 3 Hours

Max Marks : 100

Q.CODE : E782

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.Use of Steam table and Refrigeration table are allowed in the examination hall.

- Part- I

(2 x 10)
- Q1

Short Answer Type Questions (Answer All-10)
- a)

List the causes of minor energy losses in a pipe line.
- b)

Differentiate between TEL and HGL.
- c)

Define specific speed of centrifugal pump.
- d)

What do you mean by manometric efficiency and mechanical efficiency of centrifugal pump?
- e)

Define slip of reciprocating pump.
- f)

Define bulk modulus and compressibility of a hydraulic fluid.
- g)

What is specific speed of centrifugal pump?
- h)

What is flownet?
- i)

What do you mean by potential function?
- j)

Specify the measuring instruments for velocity and discharge of fluid flow
- Part- II

(6 x 8)
- Q2

Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve)
- a)

State the Newton's law of viscosity. Sketch the Newton's law relationship for Newtonian and Non-Newtonian fluids. Give examples for each fluid.
- b)

Explain any two pressure measuring instruments used in fluid flow.
- c)

Derive the differential form of continuity equation in Cartesian coordinates.
- d)

Determine the velocity and acceleration of a fluid particle at (2,4,6) at t=0.3s for the velocity field given by $V=12xz\mathbf{i}+20xy\mathbf{j}+50t\mathbf{k}$
- e)

A cylinder of 150mm radius rotates concentrically inside a fixed cylinder of 155mm radius. Both cylinders are 300mm long. Determine the viscosity of the liquid which fills the space between the cylinders if a torque 0.98 N-m is required to maintain an angular velocity of 60r.p.m.
- f)

Derive the expression for finding the center of pressure on an inclined submerged plate.
- g)

Explain the working of Hydraulic intensifier with sketch.
- h)

With dimensionless curves, describe performance of hydraulic turbines.
- i)

Define the following

i)

Laminar flow and turbulent flow

ii)

rotational and irrotational flow

iii)

Uniform flow and steady flow
- j)

Define the following

i)

Stream lines

ii)

Path lines

iii)

Streak lines

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