

Scheme – I
Sample Question Paper

Program Name : Diploma in Mechanical Engineering
Program Code : ME
Semester : Fourth
Course Title : Fluid Mechanics and Machinery
Marks : 70

22445

Time: 3 Hrs.

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1) Attempt any FIVE of the following.

10 Marks

- a) List different Properties of fluid
- b) Convert the following reading on pressure gauge (i) -30 mm of Hg into KPa.
- c) List out the discharge measuring instrument.
- d) State the various minor losses in the pipe.
- e) State factors which govern selection of turbine for hydraulic electric power plant
- f) State the applications of Centrifugal pump. (any two)

Q.2) Attempt any THREE of the following.

12 Marks

- a) A different pressure gauges shows following sets of reading (i) 50 psi (ii) 100 kg/cm² (iii) 15 bar Convert it into N/mm² & N/m².
- b) Compare physical properties of water with kerosene at atmospheric condition on the basis of (i) Specific Gravity (ii) Kinematic Viscosity (iii) Surface Tension (mention values)
- c) Explain pressure & velocity variation in convergent tube, throat and divergent tube of venturimeter.
- d) Explain with neat sketch procedure to calculate velocity using pitot tube.

Q.3) Attempt any THREE of the following.

12 Marks

- a) Interpret whether the laminar or turbulent flow in following situation
 - (i) Viscous liquid like oil travelling on smooth surface
 - (ii) Viscous liquid like Honey travelling on smooth surface

Fluid Mechanics And Machinery Solved Question Paper

Rachel Sandford



Fluid Mechanics And Machinery Solved Question Paper:

Decoding **Fluid Mechanics And Machinery Solved Question Paper**: Revealing the Captivating Potential of Verbal Expression

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