

Fourth Semester B.E. Degree Examination, June 2012
Fluid Mechanics

Time: 3 hrs.

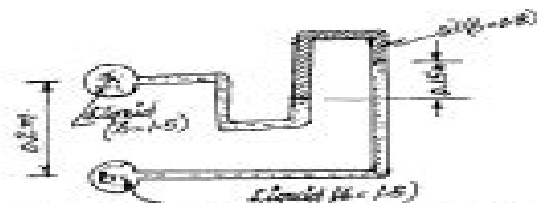
Max. Marks:100

Notes: 1. Answer any FIVE full questions, selecting atleast TWO questions from each part.
2. Missing data may be assumed suitably with proper reasoning.

PART - A

1.
 - a. Distinguish between the following :
 - i) Mass density and weight density
 - ii) Dynamic viscosity and kinematic viscosity.
 - iii) Ideal fluid and real fluid. (06 Marks)
 - b. Prove that an ideal gas undergoing an adiabatic process, the bulk modulus of elasticity (K) is γ time the pressure (P) where $\gamma = C_p/C_v$. (04 Marks)
 - c. Derive an expression for surface tension on a liquid jet. (04 Marks)
 - d. An oil film of thickness 1.5mm is used for lubrication between a square plate of size $0.9\text{m} \times 0.9\text{m}$ and an inclined plane having an angle of inclination 20° with horizontal. The mass of the square plate is 40 kg and it slides down the plane with a uniform velocity of 0.2m/s. Find the dynamic viscosity of the oil. (06 Marks)
2.
 - a. State and prove hydrostatic law. (06 Marks)
 - b. Find the pressure difference between A and B in kPa in meters of water for the fig.Q2(b). (06 Marks)

Fig.Q2(b)



- c. A circular plate of 4.5m diameter is submerged in water with its greatest and least depths below the water surface being 3m and 1.5m respectively. Find i) the total pressure on the front face of the plate and ii) the position of centre of pressure. (08 Marks)
3.
 - a. A hollow wooden cylinder ($s = 0.6$) has an outer diameter of 0.6m and an inner diameter of 0.3m. It is required to float in an oil of sp.gr. 0.9. Calculate i) the maximum length (height) of the cylinder so that it shall be stable when floating with its axis vertical ii) the depth to which it will sink. (08 Marks)
 - b. Distinguish between : i) Steady flow and uniform flow ii) Rotational flow and irrotational flow. (04 Marks)
 - c. In a two - dimensional flow field for an incompressible fluid, the velocity components are :
 $u = \frac{x^2}{3} + 2x - x^2y$ and $v = xy^2 - 2y - \frac{x}{3}$
 i) Check for the continuity ii) Find an expression for the stream function. (08 Marks)

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