

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY**Diploma Engineering – SEMESTER – III • EXAMINATION – WINTER • 2014****Subject Code: 331901****Date: 29-11-2014****Subject Name: Fluid Mechanics and Hydraulics Machines****Time: 10:30 am - 01:00 pm****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered to be Authentic.

- | | | |
|-------------|---|-----------|
| Q.1 | (a) Explain concept and classification of fluid. | 07 |
| | (b) Classify pressure measuring devices. Explain construction and working of Dead Weight Pressure Gauge with neat sketch. | 07 |
| Q.2 | (a) State and derive Pascal's law of pressure. | 07 |
| | (b) The water is flowing through a pipe having diameter 30 cm and 40 cm at section 1 and 2 respectively. The section 1 is 3m above datum and section is 7m above datum. The rate of water flow is 0.7 m ³ /sec. If the pressure at section 1 is 50 kN/m ² , find the pressure at section 2. | 07 |
| | OR | |
| | (b) State different types of fluid flow and Explain any two of them. | 07 |
| Q.3 | (a) Derive an expression for finding out discharge through orifice meter. | 07 |
| | (b) Describe Reynolds's experiment with neat sketch and define Reynolds's number. | 07 |
| | OR | |
| Q.3 | (a) State assumptions of Euler's equation. Derive Euler's equation. | 07 |
| | (b) The inlet and throat diameter of a horizontal Venturimeter is 40cm, & 15 cm respectively. If the difference of inlet pressure and vacuum pressure at throat is 25cm of mercury, then find the discharge through Venturimeter. The coefficient of discharge is 0.98. | 07 |
| Q.4 | (a) Derive equation of force, work done and efficiency due to impact of jet on series of moving flat plates. Find its maximum efficiency. | 07 |
| | (b) Explain the construction and working of Pelton wheel with neat sketch. | 07 |
| | OR | |
| Q. 4 | (a) State application of pumps. Explain the construction and working of reciprocating pump with neat sketch. | 07 |
| | (b) Classify pumps. Explain Characteristic curves of centrifugal pump. | 07 |
| Q.5 | (a) Explain construction, working and application of Hydraulic Ram with sketch. | 07 |
| | (b) A turbine is to operate under a head of 100 m at 1500 R.P.M. The discharge is 1500 lit/sec. If the efficiency is 85%, determine the power produced, specific speed and types of turbine. | 07 |
| | OR | |
| Q.5 | (a) Draw block diagram of pneumatic system and explain its main elements. | 07 |
| | (b) Define pneumatics. State advantages and disadvantages of pneumatic systems. | 07 |

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