3883

Reg. No. : ....

Name : ....

IV Semester B.Tech. Degree Examination, July 2009
Branch : Civil
Lab : FLUID MECHANICS LAB

Time : 3 Hours

Max. Marks : 100

(Answer **one** question as choosen by lot).

1. Conduct an experiment to calibrate the given rectangular notch and draw the calibration curve.

2. Conduct an experiment to determine the coefficient of discharge of the given venturimeter.

3. Conduct an experiment to find the Darcy's coefficient and Chezy's constant for the given pipes.

4. Conduct an experiment to find the coefficient of discharge of the given circular orifice by constant head method.

5. Conduct an experiment to find the hydraulic coefficients of the given circular orifice.

6. Conduct an experiment to find the coefficient of discharge of the given triangular notch.

7. Conduct an experiment to evaluate the performance of the given centrifugal pump.

8. Conduct an experiment to plot efficiency and discharge versus BP of the Pelton turbine for constant head and constant speed.

9. Determine the coefficient of discharge of a circular orifice using :

   a) Constant head method

   b) Varying head method.

   Compare the values of C_d in both cases.

10. Find the coefficient of discharge of a Venturimeter using calibration equation. Calculate actual discharge if the manometric head is 5 cm of mercury.

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