



MEP 001

**III Semester B.Tech. (Mechanical) Examination, August 2011
FLUID MECHANICS AND MACHINERY LAB**

Time : 3 Hours

Max. Marks : 75

- Instructions :** 1) Answer *all* questions in Part – A and either (a) or (b) in Part – B.
2) Each question carries 5 marks in Part – A and 50 marks in Part – B.

PART – A

1. Explain the function of venture meter.
2. Explain the calculation of the rate of flow using Rota meter.
3. Explain the characteristics of centrifugal pump.
4. Explain the working of Francis turbine.
5. Explain the characteristics of pelton wheel.

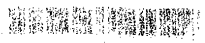
PART – B

6. a) Determination of the coefficient of discharge of given Orifice meter.

OR

- b) Conducting experiments and drawing the characteristic curves of gear pump.
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THE UNIVERSITY OF CALICUT
B.A. POLITICAL SCIENCE AND HISTORY
SEMESTER II

Max Marks : 75

Time : 3 Hours

Answer the following questions in Part A and Part B. All questions in Part A are compulsory and carry 50 marks. Part B consists of two questions, each carrying 10 marks.

PART - A

1. Explain the term 'state'.
2. Explain the concept of 'sovereignty'.
3. Explain the concept of 'territory'.
4. Explain the concept of 'population'.
5. Explain the concept of 'government'.

PART - B

- (a) The evolution of the state is a process of growth. Discuss.
- (b) Give a brief account of the concept of 'state'.