



College of Engineering & Technology

Department: Mechanical Engineering Marks: 7

Lecturer: Dr. Rola Afify Time: ---

Course Code: ME362 Date: 3/12/2016

Name:

R. N.:

Answer the following questions:

1. Define:
 - Pressure.
 - Streamline.
 - Stream tube.

2. State the relation between absolute, atmospheric and gage pressure.

3. Prove:-
 - The pressure changes in the vertical direction
 - The pressure is constant in the horizontal direction.

4. Compare between:-
 - a) Pressure and head.
 - b) Piezometer and U-tube manometer.
 - c) Inclined-Tube Manometer and U-tube with one leg enlarged.
 - d) U-tube manometer and Inverted U-tube manometer.
 - e) Barometer and Bourdon tube gauge.
 - f) Ideal and real flow.
 - g) Steady and unsteady flow.
 - h) Uniform and Non-uniform flow.
 - i) One , two and three-dimensional flow.
 - j) Rotational & irrotational flow.
 - k) Laminar, Transient and Turbulent flow.

5. Discuss the function of:-
 - Pressure Transducer (Electrical Measuring Device).
 - Application of Pascal Law.

Good Luck 1/1
Dr. Rola Afify