



College of Engineering & Technology

Department: Mechanical Engineering
Lecturer: Dr. Rola Afify
Course Code: ME464

Marks: 15
Time: 9:30- 10:10
Date: 23/3/2016

15

Name:

R. N.:

Answer the following questions:

Question one (7 marks)

A) What are the functions of Hydraulic Fluid?

B) Draw the Block Diagram of Hydraulic System Showing Major Components showing how Energy is transferred throughout a Hydraulic System.

Question two (8 marks)

A) Prove the Conservation of Energy Law.

B) Sketch Air-to-Hydraulic Pressure Booster with declaring its pressure ratio.