



College of Engineering & Technology

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

Marks: 15
Time: 9:30- 10:10
Date: 24/3/2016

15

Name:

R. N.:

Answer the following questions:

Question one (7 marks)

A) What are the properties of Hydraulic Fluid (mention 5)?

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 that Energy can be neither created nor destroyed.

B) Draw conversion of Power from Input Electrical to Mechanical to Hydraulic to Output Mechanical in a Hydraulic System.