



College of Engineering & Technology

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

Marks: 20
Time: 11:00 – 12:10
Date: 30/4/2013

Name:

Answer the following questions:

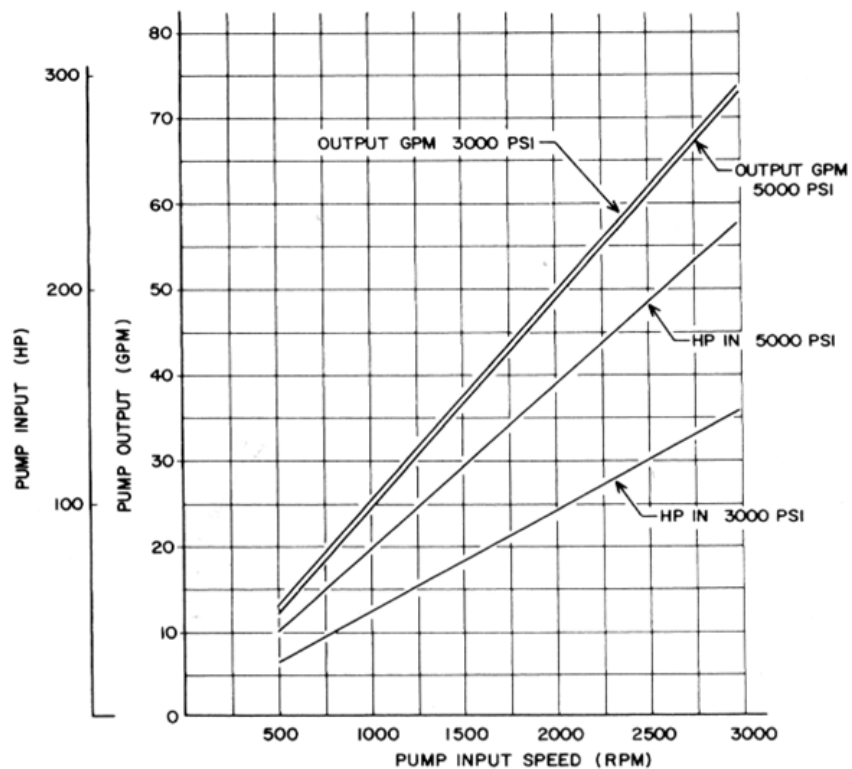
Question one (5 marks)

What are the benefits of using universal alignment mounting accessory components?

Question two (10 marks)

The shown graph gives the pump input horsepower (hp), and pump output flow (gpm) as a function of Pump speed, for pressure level of 5000 psi. The volumetric displacement of the pump is $6 \text{ in}^3/\text{rev}$.

- Calculate the volumetric efficiency at the pressure level, at input power of 100 hp.
- Calculate the mechanical efficiency at the pressure level, at 2000 rpm.



Question three (5 marks)

Write down the words that represent each of the following:

