



## College of Engineering & Technology

Department: Mechanical Engineering

Marks: 15

Lecturer: Dr. Rola Afify

Time: 3:15- 4:00

Course Code: ME464

Date: 26/3/2013

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Name:

**Answer the following questions:**

**Question one (3 marks)**

The external gear pump uses three types of gears, spur, helical, or herringbone gears. Mention the advantages and disadvantages of the three types.

**Question two (12 marks)**

Compare between Dynamic (Non-Positive Displacement) and Positive Displacement Pumps using neat sketches with giving one example for each type.