

College of Engineering & Technology

Department: Mechanical Engineering Marks: 10

Lecturer: Dr. Rola Afify
Course Code: ME464

Time: 4:00 – 5:00
Date: 20/5/2014

Name: R.N.:

Answer the following questions: **Question one (4 marks)**

Sketch Vane Pump and show how it works.

Question two (3 marks)

Find the flow rate that an axial piston pump delivers at 1000 rpm. The pump has nine 15-mm-diameter pistons arranged on a 125-mm-diameter piston circle. The offset angle is set at 10° and the volumetric efficiency is 94%.

Question three (3 marks)

Write down the words that represent each of the following:





