

College of Engineering & Technology

Department: Mechanical EngineeringMarks: 30Lecturer: Dr. Rola AfifyTime: 2:30 - 3:30Course Code: ME356Date: 31/12/2013

Name:

Answer the following questions: Question one (10 marks)

A) Define:

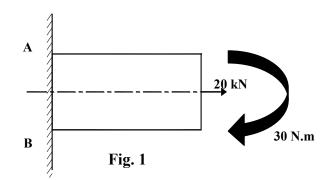
i) Machine Design:

ii) Strength:

B) What are the general procedures in Machine Design?

Question two (20 marks)

A 30 mm diameter rod, shown in Fig.1, is subjected to a force of 20 kN and a moment of 30 N.m. Calculate the stresses at A and B. Also, use neat sketches to show these stresses.



Good Luck 1/1 Dr. Rola Afify