College of Engineering & Technology

Department: Mechanical Engineering   Marks: 10
Lecturer: Dr. Rola Afify   Time: 9:30 - 10:10
Course Code: ME356   Date: 30/10/2016
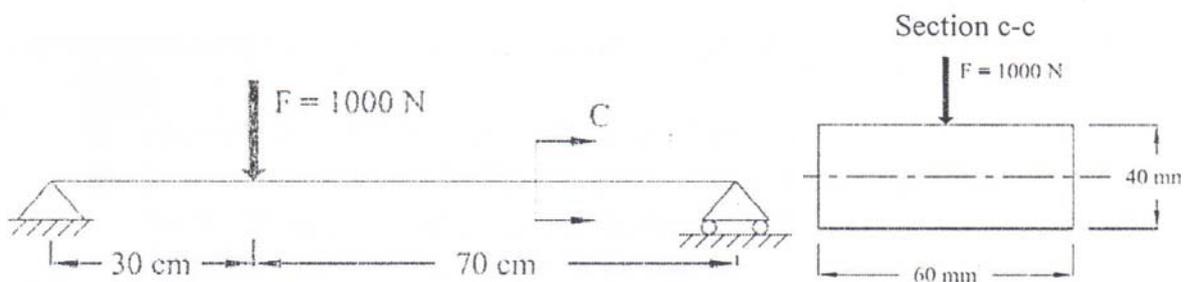
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Name: R.N.:
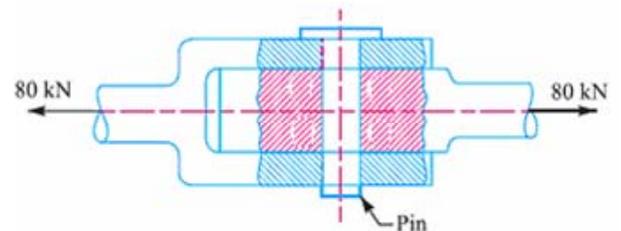
Answer the following questions:
Question one (5 marks)

For the shown beam, draw the bending moment diagram and calculate the maximum bending stress.

Question two (5 marks)

A pull of 80 kN is exerted through a pin as shown in figure. If the maximum permissible tensile stress is 100 N/mm^2 and the permissible shear stress in the pin is 80 N/mm^2, find the diameter of the pin.

Good Luck   1/1
Dr. Rola Afify