

King Fahd University of Petroleum & Minerals  
DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING  
CE 203 STRUCTURAL MECHANICS I (Section 2)  
Second Semester 1435 / 2014 (132)

Name: \_\_\_\_\_  
ID #: \_\_\_\_\_

Quiz # 11

Score \_\_\_\_\_  
10

Rewrite the solution of the problem below from the HW that you just did (without looking at your solution).

\*8-28. The joint is subjected to a force of  $P = 0.4$  kN and  $F = 0$ . Sketch the normal-stress distribution acting over section  $a-a$  if the member has a rectangular cross-sectional area of width 50 mm and thickness 12 mm.

$$\sigma = -\frac{My}{I}$$

$$\bar{I} = \frac{1}{12} bh^3$$

