

**MIDTERM EXAMINATION**  
**PRINCIPLES OF REINFORCED/ PRESTRESSED CONCRETE DESIGN**

**Test I. Identification (10 pts.)**

Instructions: 1) Write the correct answer on the space provided.

2) Strictly no erasure.

3) Each item weighs 2 pts.

- \_\_\_\_\_ 1. It is a combination of concrete and steel wherein the steel reinforcement provides the tensile strength lacking in concrete.
- \_\_\_\_\_ 2. It is the most important code in the Philippines for reinforced concrete design.
- \_\_\_\_\_ 3. Type of cement suitable to be used in concrete structures situated in a body of water.
- \_\_\_\_\_ 4. Type of environmental load not applicable in the Philippines.
- \_\_\_\_\_ 5. The moment at which cracks begin to form in the bottom of singly-reinforced beam.

**Test II. Multiple Choice (20 pts.)**

Instructions: 1) Encircle the letter that corresponds to the correct answer.

2) No need to show your solution.

3) Strictly no erasures.

4) Each item weighs 2 pt.

6. A 200mm x 400mm beam has a tensile reinforcement of 3-16mm bars placed 50mm above the bottom of beam.

Determine the stress in steel assuming the concrete in the tensile side has cracked and the tensile stress is less than the yield stress. Use  $n = 9$  and  $M = 30 \text{ kN.m}$

- a. 160.87 MPa                      b. 140.57 MPa                      c. 139.12 MPa                      d. 138.32 MPa

7. In No. 6, what is the nominal moment strength of the beam assuming the concrete has cracked and the tensile reinforcing bars has also yielded. Use  $f_y = 276 \text{ MPa}$  and  $f_c' = 20.7 \text{ MPa}$ .

- a. 63.06 kNm                      b. 62.05 kNm                      c. 54.82 kNm                      d. 53.81 kNm

8. In No. 6, calculate the nominal moment strength of the beam using WSD formulas. Use  $n = 9$ ,  $f_s = 200 \text{ MPa}$ .

- a. 37.51 kNm                      b. 37.30 kNm                      c. 43.13 kNm                      d. 42.90 kNm

9. A 300mm x 600mm beam has a tensile reinforcement of 4-25mm bars placed 50mm above the bottom of beam.

Determine the design moment capacity of the beam if  $f_c' = 28 \text{ Mpa}$  and  $f_y = 276 \text{ Mpa}$ .

- a. 357.96 kNm                      b. 251.68 kNm                      c. 258.72 kNm                      d. 373.89 kNm

10. In No. 9, determine the design moment capacity of the beam if  $f_c' = 20.7 \text{ Mpa}$  and  $f_y = 415 \text{ Mpa}$ .

- a. 357.96 kNm                      b. 251.68 kNm                      c. 277.02 kNm                      d. 396.06 kNm

**Test III. Problem Solving (60 pts.)**

Instruction: 1) Show your complete solutions neatly on another sheet(s) of paper.

# Midterm Test Answers For Principles Of Management

**Audrey Haber, Richard P. Runyon**



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