

CIVE 2700
VERSION A
Civil Engineering Materials
October 16th 2014
Practice

Student ID Number: _____
Instructor: Dr. John Gales

Score _____ / 50

Time Allowed: 80 minutes

Materials Allowed: Pen/pencils, eraser, ruler, No books/notes. Answer all questions.
Put your answer on this paper in the spaces provided

Part A: Questions 1-3 worth one mark each: (3 points)

For the following statements, circle the response that you think is correct. Circle **T** if you think the statement is TRUE or **F** if you think the statement is False. **If the statement is false correct the statement.**

		Q #	Statement
T	F	1	The designation for conventional cement is GU.
T	F	2	Pre-tensioning of reinforcing steel bars or strands is performed before concrete is in place.
T	F	3	Wrought aluminium alloys are classified using four digits and a decimal point in this form: WXX.X.

Part B: Short to long answer (10 points)

1. Draw two curves on the same stress-strain graph, showing the relative stress-strain relationships of these materials: A (brittle), B (ductile) *2 points*
2. Describe cold working and what does it mean. *1 points*
3. What do the crystalline structures BCC and FCC abbreviate to? Sketch them. *2 points*
4. Describe the five steps of how Portland cement is fabricated? *5 points*