

# GLY 254 STRUCTURAL GEOLOGY

## CLASS TEST

07-30 - 08-20, Monday 17<sup>th</sup> March 2008

Answer all questions.

Time allowed: 50 minutes

This test is composed of two sections: A: multiple choice=15 marks, B: short answers = 40 marks

N.B.: Some questions require you to draw on this question paper, and it should be handed in together with your answer sheet

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### Part A: Multiple Choice.

#### Question 1:

Examine the following two columns of terms. Using a tie line, match each term in the left hand column with a term to which it most closely relates in the right hand column. A non-geological example is shown. Use a ruler to make neat tie lines!

- |                                     |                            |
|-------------------------------------|----------------------------|
| Steering Wheel                      | 1 Horizontal axial plane ✓ |
| 7 Pseudotachylite                   | 2 Normal Fault ✓           |
| 6 Ultramylonite                     | 3 Reverse Fault ✓          |
| 8 Cataclasite                       | 4 Ductile Shear zone ✓     |
| 1 Recumbent fold                    | 5 Motor car                |
| 11 Microlithon                      | 6 Forced folding ✓         |
| 2 Hanging wall block moves down dip | 7 Meteorite Impact ✓       |
| 3 Hanging wall block moves up dip   | 8 Brittle faulting ✓       |
| 10 Ribs and Hackles                 | 9 Strike-slip faults ✓     |
| Riedal Shears                       | 10 Joint planes ✓          |
| Monocline                           | 11 Cleavage ✓              |

10

(10 marks)

#### Question 2:

Examine the following stress/strain diagram resulting from a rock rheology experiment with the Donath apparatus:

