

**Petroleum Geology TA3820**  
**Written Examination, June 22, 2009**

**Prof. Dr. Stefan M. Luthi**

**PLEASE NOTE:** The questions should be answered as concisely as possible (this is part of the rating – chose keywords where possible but make sure your answers are still comprehensive).

Each question counts equally towards the final score (20%). The bonus question can give you an extra 5%.

Please mention your name and student number at the top of each sheet.

1. What are the main differences between the organic and the inorganic carbon cycle?
2. What are the principal differences between primary and secondary oil migration?
3. Describe the different components found in petroleum and their major uses.
4. Describe the main properties of a reservoir rock and the main pore types.
5. Make a cross-section of a salt dome and associated layering and show the possible traps.

Bonus question: What is the main difference between olive oil and motor oil.