

American University of Beirut
Department of Geology
Petroleum Geology
Fall 2005-2006
Geology 225
Final Exam

Feb. 2nd, 2006

Read the Notes on the Bottom Carefully **Before** You Start

Answer **only** 1 of the following 2 questions:

1. a. Review in detail the failed rift basins and their potential for hydrocarbons, with a reference to the North Sea (with figures).
b. Review in detail all the chemical paleo-thermometers.

2. a. Review in detail the back-arc troughs, and their potential for hydrocarbons (with figures).
b. Review in detail the crude oil, and its chemistry (with figures).

Notes:

- Time available: 2 hours.
- Both parts a and b must be of the same question.
- Put please your mobile off and away from you.
- Any attempt of cheating will be severely penalized.
- A penalty exists if you answer more than 1 question.
- Read please very carefully each question before you answer it.
- Write please your name on both the questionnaire sheet and the examination book.
- Start please the answer of every new question on a new page of the examination book.
- Use please the last page of the examination book as a scratch. Cross out this page when you finish.
- Do not tear please any sheet of paper out of the examination book, with the risk of canceling the whole exam.