

National University of Ireland, Galway
OLLSCOIL NA hÉIREANN, GAILLIMH

SUMMER EXAMINATIONS 1999

Earth's Physical Resources, ER301

Professor B.P.J. Williams
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Time allowed : Three hours

Answer 4 questions. One from each section, i.e. Section A, Section B, Section C & Section D.

SECTION A

1. "Resources will be available as long as there is demand". Discuss this statement. Define all terms you use.
2. The global demand for energy is increasing. How is this demand likely to be met in the next century?

SECTION B

3. Describe the requirements for coal and peat formation.
4. Using diagrams, illustrate the structural geometry of hydrocarbon plays located in the North Sea.

SECTION C

5. Describe the influences of the rock cycle on the hydrological cycle and vice versa.
6. Give the ingredients of cement, mortar and concrete. Also, write a recipe for making bricks. Describe the mineralogical changes undergone during heating.

SECTION D

7. Describe the three types of ore deposits formed by magmatic fluids.
8. Give an example of a lead-zinc deposit in limestone and how it formed.