

Ollscoil na hÉireann, Gaillimh
National University of Ireland, Galway

GX 1137

Semester II Examinations, 2002/2003

| | |
|-----------------------------|---|
| Exam Code(s) | 3BA1, 4BA4 |
| Exam(s) | 3 rd Arts, 4 th Arts International |
| Module Code | TI318 |
| Module | Climate Change |
| External Examiner(s) | Professor M. Dunford |
| Internal Examiner(s) | Professor U. Strohmayer Professor M. Ó Cinnéide |
| <u>Instructions:</u> | Answer any <u>three</u> questions All questions carry equal marks |
| Duration | 3hrs |
| No. of Answer books | 1 |
| No. of Pages | 1 |
| Department | Geography |

1. Give a concise account of the principal components of the climate system and indicate the manner in which they interact with one another.
2. Construct a general picture of the climate record through geological time and provide a plausible explanation of the salient features of that record.
3. Give an illustrated explanatory account of El Nino-Southern Oscillation and briefly discuss some of its global ramifications.
4. Illustrate graphically global temperature trends over the past century and examine the evidence that supports the attribution of observed global warming to greenhouse gases of anthropogenic origin.
5. Illustrate and assess the vulnerability of some selected human systems to global warming.
6. Outline and assess critically the main mitigation measures being proposed in relation to global warming.