

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATIONS 2012/2013

FIRST YEAR SECOND SEMESTER EXAMINATION FOR MASTER OF ARTS IN
GEOGRAPHY
(KISUMU CAMPUS)

NGE 808: ADVANCED CLIMATOLOGY

INSTRUCTIONS:

- Answer any **Three** questions
- Sketch maps and diagrams should be used whenever appropriate

1. (a) Account for the blue sky and the red evenings (6 marks)
- (b) Account for the high temperatures over the Tropical Regions (14 marks)
2. "Water vapour is critical in determining the climate of an area". Discuss. (20 marks)
3. Using examples, explain the following concepts as used in climate-related studies
 - (i) Greenhouse effect (6 marks)
 - (ii) Positive feedback mechanism (7 marks)
 - (iii) Negative feedback mechanism (7 marks)
4. Explain the salient features of the troposphere and account for the temperature change in the first two layers of the atmosphere (20 marks)
5. Discuss any Four (4) indicators of climate change (20 marks)