

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

UNIVERSITY EXAMINATIONS 2013/2014

SECOND YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR
OF ARTS AND EDUCATION

**NGE 202: CLIMATOLOGY
(Regular – Main Campus)**

INSTRUCTIONS

- **Answer question ONE and any other TWO questions.**
- **Sketch maps and diagrams should be used whenever appropriate**

1. (a) Describe the salient features of the middle atmosphere (10 marks)
(b) Explain the influence of latitudes on temperature of a given region (10 marks)
2. Examine the formation of any Four (4) winds produced by locally generated pressure gradient force (P_f) (20 marks)
3. Explain the following concepts
(i) Equinoxes (4 marks)
(ii) Winter and Summer solstices (4 marks)
(iii) Coriolis force (12 marks)
4. Describe the Five (5) methods of expressing humidity in the atmosphere (20 marks)
5. Discuss the causes of climate change as explained by the Milankovitch theory (20 marks)