

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY UNIVERSITY EXAMINATIONS 2012/2013 2ND YEAR 2ND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION ARTS WITH IT (SCHOOL BASED BONDO)

COURSE CODE: NGE 202

TITLE: CLIMATOLOGY

DATE: 29/4/2013 TIME: 9.000-11.00AM

DURATION: 2 HOURS

INSTRUCTIONS

- 1. This paper contains FIVE (5) questions
- 2. Answer question 1 (Compulsory) and ANY other 2 Questions
- 3. Write all answers in the booklet provided

| 1. | a) Examine the salient features of the troposphere | (10 marks) |
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| | b) Discuss the formation of raindrops in cold clouds | (10 marks) |
| | c) Explain the mechanisms for heat transfer in the atmosphere | (10 marks) |
| 2. | Examine the factors which influence the temperature change on planet | Earth (20 marks) |
| 3. | Discuss the impact of ultra-violet (UV) radiation to the lower atmosph | , |
| 4. | Write explanatory notes on the following: | |
| | i) Absolute humidity | (5 marks) |
| | ii) Water vapour | (5 marks) |
| | iii) Greenhouse effect | (5 marks) |
| | iv) Stratospheric ozone | (5 marks) |
| 5. | Examine the atmospheric processes that lead to depletion of solar radiation. | |
| | | (20 Marks) |