

**UGANDA CHRISTIAN UNIVERSITY
UNIVERSITY EXAMINATIONS 2015**

**SECOND YEAR ADVENT SEMESTER EXAMINATION FOR THE DEGREE OF
BACHELOR OF ARTS WITH EDUCATION**

COURSE: CLIMATOLOGY

DATE: DECEMBER 2015

TIME: 3HRS

INSTRUCTIONS:

- a) Answer any four question
 - b) Do not write on this question paper
 - c) Use of relevant illustrations will be an added advantage
 - d) MOBILE PHONES ARE NOT ALLOWED IN THE EXAMINATION ROOM**
-

1. Write short notes in these terms
(a) Climatology (b) Cyclones (c) Katabatic and Anabatic winds
(d) Solar spectrum (e) Atmospheric circulation
- 2 a) Describe the structure of the atmosphere (10marks)
b) Explain how the activities in the troposphere affect man's livelihood (15marks)
3. Water is an essential part of the earth's system. The oceans cover nearly three quarters of the earth's surface.
a) Give an analysis of heat, energy and moisture transfer in the atmosphere (10marks)
b) Describe the influence of heat transfer on weather on our earth, use illustrations in your explanations.
4. Explain the relationship between earth's temperature and pressure cells on the earth's surface. (25marks)
- 5 a) Account for the causes of climate change (10marks)
b) Identify the effects of climate change in Uganda and discuss the strategies government has taken to overcome these effects (15marks)
- 6 a) State and describe the forms and types of precipitation (10marks)
b) Account for the distribution of rainfall in Uganda (15marks)
- 7 a) Identify the elements of weather. (10marks)
b) Explain how each element of weather is measured at a weather station (15marks)
8. Giving specific examples, identify the different types of ocean currents and examine their influence on the economic activities along the coastal regions of Africa. (25marks)

END