



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2014/2015

DIGITAL SCHOOL OF VIRTUAL AND OPEN LEARNING

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
ARTS, BACHELOR OF EDUCATION AND BACHELOR OF SCIENCE

AGE 306: CLIMATOLOGY

DATE: Tuesday 28th April 2015

TIME: 4.30 p.m. – 6.30 p.m.

INSTRUCTIONS:

Answer any **THREE** questions. Illustrations should be used where appropriate.

1. a) Explain the historical development and scope of climatology.
(10 marks)
 b) With examples, explain the role of climatology in Kenya. (10 marks)
 c) Critique the need for weather modification techniques such as cloud
 seeding. (10 marks)

2. a) Account for the characteristics of the thermal structure of the atmosphere.
(12 marks)
 b) Explain the process of energy transfer in the atmosphere. (8 marks)

3. a) Evaluate the impact of climate change on water and agriculture.
(10 marks)
 b) Explain any five ways of overcoming water resources challenges in
 ASALs. (10 marks)

4. a) Examine the components of a climate system. (8 marks)
- b) Suggest mitigation and adaptation measures to climate change in a region of your choice. (12 marks)
5. With examples, evaluate the role of any five branches of climatology. (20 marks)