



KENYATTA UNIVERSITY

EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE (CROP IMPROVEMENT AND ENVIRONMENTAL STUDIES)

KST 303: AGRO-METEOROLOGY AND ECOLOGY

2ND SEMESTER 2020/2021

TIME: 2 Hours

INSTRUCTIONS: Answer Question ONE and any other THREE

1. Define Season and explain any four factors influencing it. (5 marks)
2. Explain the five major components of climate system. (5 marks)
3. Explain how man influences climate system. (5 marks)
4. Briefly discuss the effects of climate change on crops. (5 marks)
5. Illustrate the difference between Solar and Terrestrial radiations. (5 marks)
6. Enumerate five benefits derived from the application of meteorological services in agriculture. (5 marks)
7. With examples, classify plants according to their natural habitats with respect to water supply. (5 marks)
8. Explain the role of greenhouse technology in combating climate change. (5 marks)

SECTION B

9. Discuss climate change and its effect on crop production with relevant examples. (15 marks)
10. Discuss the movement of heat within the earth's atmosphere system. (15 marks)
11. With relevant examples, explain the application of meteorology in agricultural sector. (15 marks)