



The Co-operative University of Kenya

END OF SEMESTER EXAMINATION DECEMBER-2019

**EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN DISASTER,
RISK MANAGEMENT AND SUSTAINABLE DEVELOPMENT**

UNIT CODE: CODM 2206

UNIT TITLE: CLIMATOLOGICAL BASIS OF DISASTER MANAGEMENT

DATE: DECEMBER, 2019

TIME:

INSTRUCTIONS:

- Answer question **ONE (compulsory)** and any other **TWO** questions

QUESTION ONE

- (a) Distinguish between the terms climate and climate change (6 marks)
- (b) Discuss the general circulation of the atmosphere, highlighting the basic latitude and longitudinal features (12 marks)
- (c) Name and indicate the approximate heights of the components that constitute the structure of the atmosphere (6 marks)
- (d) What is the significance of the Inter-Tropical convergence Zone with respect to rainfall seasons in East Africa (6 marks)

QUESTION TWO

- (a) Distinguish between man-made hazard and natural hazard (5 marks)
- (b) Give FIVE examples of Natural hazards and describe how climate influence the occurrence of one of the natural hazard (15 marks)

QUESTION THREE

- (a) Explain what you understand by climate stress on natural hazards (5 marks)
- (b) State THREE steps that could be taken to control climate-related conflicts (15 marks)

QUESTION FOUR

- (a) Explain the basic considerations in the development of any early warning and response system (20 marks)

QUESTION FIVE

- (a) What do you understand by global warming (5 marks)
- (b) Climate change has both positive and negative and positive on human life and livelihood. Support your answer with at least three points on each side of this argument (15 marks)