

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES DEPARTMENT OF ENVIROMENT & HEALTH SCIENCES UNIVERSITY EXAMINATION FOR:

DEGREE IN MARINE RESOURCE BSMR 14S/YEAR3/SEMESTER 1

AES 4301: COASTAL CLIMATE AND DYNAMICS END OF SEMESTER EXAMINATION

SERIES:AUGUST2017

TIME: 2HOURS

DATE: Pick Date Sep 2017

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **TWO**Section(s). Attemptquestion ONE (Compulsory) and any other TWO questions.

Circle the correct answer in section A.

QUESTION ONE (30 MARKS)

- a) State and explain any five climatic elements [5Mks]
- b) Millennium declaration of 2000 involved a commitment by 189 countries across the Globe that by 2015 poverty shall be reduced by 50%, explain any five of the MDGs that were set [5Mks].
- c) State five effects of Greenhouse gases (GHGs) [5Mks]
- d) Outline five climate change adaptation measures [5Mks]
- e) Briefly explain the three types of climatology [3Mks]
- f) State two effects of increasing temperature on Polar Regions [2Mks]

g) Describe how sea level rise impacts coastal aquaculture [5Mks]

QUESTION TWO (20 MARKS)

Discuss the potential impacts of climate change on human health [20Mks]

QUESTION THREE (20 MARKS)

Describe how global warming impacts any two Ocean ecosystems [20Mks]

QUESTION FOUR (20 MARKS)

Compare and contrast the polar climate versus tropical rainy climate [20mks]

QUESTION FIVE (20 MARKS)

Explain how climate change is likely to impact marine life [20Mks]