



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

UNIVERSITY EXAMINATION FOR DEGREE IN BACHELOR OF SCIENCE IN CIVIL ENGINEERING

[Institutional Based Programmes]

EBC 4407: ENVIRONMENTAL STUDIES

END OF SEMESTER EXAMINATION

SERIES: AUGUST 2012

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consists of **FIVE** questions in **TWO** sections **I & II**

Answer question **ONE (COMPULSORY)** and any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

SECTION I (COMPULSORY)

Question One (30 marks)

- a) Define Environmental Impact Assessment (EIA) **(2 marks)**
- b) Outline the Global Environmental Hazards to human health, occasioned by Global Environmental Change. **(5 marks)**
- c) Define Environmental Conservation. **(2 marks)**
- d) Briefly discuss Global Warming. **(5 marks)**
- e) Discuss Environmental Sustainability. **(5 marks)**

f) Outline natural disasters. Discuss **TWO** examples. (8 marks)

g) Outline the usefulness of Environmental Impact Assessment. (3 marks)

SECTION II (Answer any TWO question from this section)

Question Two (20 marks)

a) Briefly explain how human beings cause climate change. (10 marks)

b) Discuss the challenges faced by developing nations in dealing with pollution. (10 marks)

Question Three (20 marks)

Outline the resources from the following sources on which man depend:

i) Atmosphere (6 marks)

ii) Hydrosphere (5 marks)

iii) Lithosphere (5 marks)

iv) Briefly discuss land pollution (4 marks)

Question Four (20 marks)

a) Briefly discuss the different types of floods, the effects and mitigation measures. (8 marks)

b) Outline the sources, causes and control measures.

i) Water pollution

ii) Air pollution (12 marks)

Question Five (20 marks)

a) Discuss the purpose and aims of EIA. (Environmental Impact Assessment). Outline the **FOUR** cornerstones of the earth summit. (12 marks)

b) Outline the following National Environmental Policies.

i) National Environmental Action Plan (NEAP). (2 marks)

ii) National Policy on water Resources Management and Development (3 marks)

iii) Policy paper on Environment and Development (Succession paper No. 6 of 1999) (3 marks)