



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)**