

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY DEPARTMENT BUILDING AND CIVIL ENGINEERING UNIVERSITY EXAMINATION FOR:

BSC IN CIVIL ENGINEERING

ECE 2519: ENVIRONMENTAL ENGINEERING END OF SEMESTER EXAMINATION

SERIES:APRIL₂₀₁₆

TIME:2HOURS

DATE:17May2016

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, Drawing Instruments, Scientific calculator, examination pass and student ID This paper consists of five questions. Attempt question ONE (Compulsory) and any other TWO questions.

QUESTION ONE [30 Marks]

a) Discuss the classification of air pollution

[5 marks]

b) Discuss the sources, effects and control of carbon monoxide.

[10 marks]

c) Discuss remedial measures for controlling water pollution.

[8 marks]

d) Discuss the harmful effects of acid rain.

[7 marks]

QUESTION TWO	[20 marks]
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a) Discuss the sources of marine pollution.

[5marks]

b) Discuss the effects of oil pollution on marine ecosystem.

[5marks]

c) Discuss the causes and effects of global warming.

[10 marks]

QUESTION THREE [20 marks]

a) Describe the six classes of natural disasters.

[3 marks]

b) Discuss the human response to flooding protection.

[10 marks]

c) Discuss policies and governance for drought risk reduction.

[7 marks]

QUESTION FOUR [20 marks]

a) Discuss causes and effects of deforestation.

[10 marks]

b) Discuss global environmental conservation policies.

[5 marks]

c) Describe the main objectives and scope of environmental science in respect to protection and conservation of our environment.

[5 marks]

QUESTION FIVE [20 marks]

a) Discuss the primary needs of sustainable development.

[4 marks]

b) In line with Agenda 21, discuss guidelines for achieving sustainable development.

[8 marks]

c) Explain why sustainable development is considered as environment's safe guard.

[2 marks]

d) Define environmental audit and state its goals. [6 marks]