



(Knowledge for Development)

KIBABII UNIVERSITY

2020/2021 ACADEMIC YEAR

FOURTH YEAR

SPECIAL/SUPPLEMENTARY EXAMINATION

FOR THE DEGREE OF BEE AND BED

COURSE CODE: ESM 410

COURSE TITLE: ENVIRONMENTAL EDUCATION

DATE: 17/1/2022

TIME: 8:00 AM-10:00 AM

INSTRUCTIONS TO CANDIDATES

Answer **THREE** questions: Question **ONE** and any other **TWO** TIME: 2 Hours

The university observes ZERO tolerance to examination cheating.

This paper consists of 3 printed pages. Please turn over.

QUESTION ONE(30 MKS)

a) List **FOUR** problems which result from resource destruction by overuse and misuse

(4 Marks)

- b) Briefly describe the effect of the following emission into the atmosphere
 - i. Sulphur particles

(2 marks)

ii. Chlorofluorocarbons (CFCs) marks)

(2 montra)

iii. Carbon (iv) oxide

(2 marks)

c) Name **THREE** components of the biosphere Marks)

(3

(2

- d) Outline **FOUR** environmental topics/sub topics in your teaching subject that a teacher may use when implementing environmental education in secondary schools (4 Marks)
- e) State **THREE** most effective tools that can be used in solving environmental problems (3 marks)
- f) Differentiate between a species and a community Marks)

(4

g) I) What do you understand by the term Natural resources Marks)

(2

- ii) Outline **TWO** ways in which Natural resources are classified (2 Marks)
- h) State **TWO** reasons why nutrients are cycled and recycled in an eco-system (2 Marks)

QUESTION TWO (20 MKS)

a) Briefly discuss **FIVE** teaching/learning activities that you would use to promote environmental actions and responsible behavior among your students (10 Marks)

b) Outline **FIVE** advantages of using interdisciplinary approach of teaching environmental education in Kenyan schools (10 Marks)

QUESTION THREE (20 MKS)

- a) State and explain **FIVE** current environmental issues of concern in Kenya (10 Marks)
- b) Discuss **five** guiding principles of environmental education as adopted at the Tbilisi Conference (10marks)

QUESTION FOUR (20 MKS)

a) Describe the main contribution of the following international treaties towards a better balanced and clean environment

Stockholm declaration

Marks)

Belgrade charter

Marks)

Thilis declaration

(4 Marks)

b) Outline **EIGHT** possible remedies to reduce emission of greenhouse gases to the atmosphere

Marks)

(8

QUESTION FIVE (20 MKS)

a) Explain the concept of climate change and the environmental problems associate with climate change.

(10 Marks)

