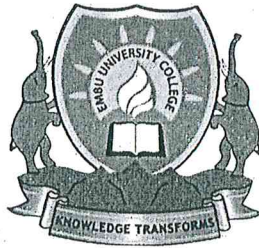


67



EMBU UNIVERSITY COLLEGE
(A CONSTITUENT COLLEGE OF THE UNIVERSITY OF NAIROBI)

SECOND SEMESTER EXAMINATIONS 2013/2014

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF MASTER OF
SCIENCE IN PLANT ECOLOGY

SBT 502: MARINE LITTORAL PLANT COMMUNITIES

DATE: MARCH 31, 2014

TIME: 11.00AM - 2.00PM

INSTRUCTIONS:

ANSWER QUESTION ONE AND ANY OTHER THREE QUESTIONS.

QUESTION ONE

- a) Describe in detail the three (3) different subzones of the intertidal zone (15 marks).
- b) Discuss the biotic and abiotic factors influencing growth and distribution of littoral communities. (10 marks)

QUESTION TWO

Discuss the physiological adaptations of marine halophytes that make them salt tolerant (25 Marks)

QUESTION THREE

- a) Describe three (3) ways in which mangroves are adapted to their environment (15 Marks)
b) Briefly discuss the biogeography of mangroves (10 Marks).

QUESTION FOUR

- a) Discuss pollution and eutrophication in marine ecosystem (25 marks).

QUESTION FIVE

- a) Describe primary production of marine littoral plant communities (15 marks).
b) Discuss cycling of any two major nutrients in littoral ecosystems (10 marks).

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