

**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2020/2021**

**IV YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN PLANT ECOLOGY AND ENVIRONMENTAL SCIENCES**

**ASE 2505: ENVIRONMENTAL MONITORING**

**DATE: OCTOBER, 2021 TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS**

**QUESTION ONE: 30 MARKS**

a. Outline the main environmental threats in Kenya. (5 marks)

b. Distinguish between:-

i. Biomagnifications and Bioaccumulation. (2 marks)

ii. Pollution and degradation. (2 marks)

iii. Global warming and climate change. (2 marks)

iv. Bioremediation and biodegradation. (2 marks)

c. List five techniques used in environmental monitoring. (5 marks)

d. List five environmental regulation in Kenya. (5 marks)

e. Briefly describe ecological monitoring. (7 marks)

**QUESTION TWO: 20 MARKS**

Discuss the role of NEMA in environmental monitoring in Kenya.

**QUESTION THREE: 20 MARKS**

Discuss application of remote sensing in environmental monitoring.

**QUESTION FOUR: 20 MARKS**

Human population growth is directly linked to environmental population. Discuss