



SOUTH EASTERN KENYA UNIVERSITY

UNIVERSITY EXAMINATIONS 2016/2017

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY

SBL 410: ENVIRONMENTAL BIOLOGY AND CONSERVATION

5TH DECEMBER, 2016

TIME: 4.00-6.00 P.M

INSTRUCTIONS TO CANDIDATES

- (a) Answer ALL the Questions in Section A**
- (b) Answer ANY TWO Questions in Section B**
- (c) Illustrate your answers with well labeled diagrams where appropriate**

SECTION A(30 marks)

1. Describe the reactions that lead to the formation of secondary air pollutants. **(3 marks)**
2. Briefly explain **three** causes of water pollution. **(3 marks)**
3. Explain how mining industries pollute the soil. **(3 marks)**
4. Explain the factors that influence wind erosion. **(3 marks)**
5. State the direct outcomes of the ratification of 'The Montreal Protocol on Substances That Deplete the Ozone Layer'. **(3 marks)**
6. Give a brief account of pesticide human health related problems. **(3 marks)**

7. State the justification for Integrated Pest Control. **(3 marks)**
8. Explain the meaning of “Maximum Sustainable Yield” for a given fish stock. **(3 marks)**
9. Explain the ecological problem associated with aquaculture. **(3 marks)**
10. Differentiate between fossil fuels and biofuels. **(3 marks)**

SECTION B(40 marks)

11. Discuss the potential implications of sea level rise. **(20 marks)**
12. Explain how desertification can be combated. **(20 marks)**
13. “Agriculture plays a role in accelerating global climate change.” Explain. **(20 marks)**
14. Discuss the importance of biodiversity. **(20 marks)**