**KENYA METHODIST UNIVERSITY**

**END OF 2NDTRIMESTER 2018 (PT) EXAMINATION**

**SCHOOL : SCIENCE AND TECHNOLOGY**

**DEPARTMENT : PURE AND APPLIED SCIENCES**

**UNIT CODE : ENVI 201**

**UNIT TITLE : ENVIRONMENTAL SCIENCE**

**TIME : 2 HOURS**

**INSTRUCTIONS**

* ***Answer All Questions in Section A and any Two Questions in Section B.***

**SECTION A: 30 MARKS-**

**Question 1 (One)**

a. What is scientific methodology and its significance? **(2 Marks)**

b. Explain how the early agricultural societies threatened ecological sustainability. **(4 Marks)**

c. List four chemical compounds primarily responsible for stratospheric ozone layer destruction giving their sources. **(4Marks)**

**Question 2 (Two)**

1. Describe three ways infra-red radiation from the earth surface is lost to the atmosphere.

**(3 Marks)**

1. Describe three effects of depletion of stratospheric ozone on animals. **(3 Marks)**
2. Explain the high equatorial rainfalls and the location of the major world deserts. **(4 Marks)**

**Question 3 (Three)**

1. Briefly describe three tragedies of the atmospheric common. **[3 Marks]**
2. Describe four ways water drainage basins are negatively impacted by deforestation?

**(4 Marks)**

1. Describe how the carbon as a nutrient mineral in an elephant’s body tissue is made available to the environment for use by other organisms. **(3 Marks)**

**SECTION B – 40 MARKS –**

* ***Answer any Two Questions***

**Question 4 (Four)**

1. Discuss the main problems of modern agricultural ecosystems. **(10 Marks)**
2. Explain how Kenya can achieve sustainable use of its non-fuel mineral resources.

**(10 Marks)**

**Question 5 (Five)**

1. Discuss five human activities that directly affects wildlife species in Kenya. **[10 Marks]**
2. Discuss the environmental impacts of non-renewable energy sources. **(10 Marks)**

**Question 6(Six)**

1. Outline ten practical methods of decelerating global warming.  **(10 Marks)**
2. Discuss how Kenya as a country is moving towards achieving food security. **(10 Marks)**