**KENYA METHODIST UNIVERSITY**

**END OF 2NDTRIMESTER 2018 (FT) 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)**

1. What are hunter-gatherer societies and explain why they were successful. **(3 Marks)**
2. Explain four reasons necessary for existence of life on Planet Earth. **(4 Marks)**
3. Define scientific methodology and illustrate it in a flowchart. **(3 Marks)**

**Question 2 (Two)**

1. Describe the four most effective ways of regulating the commons. **(4 Marks)**
2. Explain four major environmental functions of aquatic ecosystems.  **(4 Marks)**
3. Explain cultural eutrophication and its resultant effect in lakes. **(3 Marks)**

**Question 3 (Three)**

1. With examples, explain the difference between point and non-point pollution. (**3 Marks**)
2. Describe four factors contributing to human population increase in the world. **(4 marks)**
3. Describe three factors leading to increase carbondioxide levels in the atmosphere.

 **(3 marks)**

**SECTION B: 40 MARKS**

* ***Answer any two questions***

**Question 4 (Four)**

1. Discuss the major long term problems associated with industrialized agriculture. **(10 Marks)**
2. Explain five main threats to aquatic ecosystems in Kenya. (**10 Marks**)

**Question 5 (Five)**

1. Illustrate the hydrological cycle and explain main effects of its flows on water quality.

**(10 Marks)**

b. Discuss the environmental impacts of non-renewable energy sources

**Question 6 (Six)**

1. Discuss the approaches Kenya is employing to control extinction of its wildlife species.

 **(10 marks)**

1. Discuss the effects of human overpopulation on health. (**10 Marks**)