****

**END OF 1st TRIMESTER 2017 (PART-TIME) 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 from section B.*

**SECTION A: 30 Marks - Answer ALL the questions**

**Question One**

a. Define environment and describe types of natural environments

**(3 Marks)**

b. Describe three effects of overdrawing of surface waters **(3Marks)**

c. Explain the main ways of regulating the commons **(4 marks)**

**Question Two**

a. Explain the long term problems associated with industrialized agriculture **(3 Marks)**

b. Explain the importance of the stratospheric ozone layer to life on Earth? **(3 marks)**

c. Explain four effects of excessive air pollution on plants (**4 Marks**)

**Question Three**

a. Explain the concept of “sustainability” and how does its goals differ from previous goals under industrialization? **(4 Marks)**

b. Explain three major ecological services provided by rivers and streams (**3 marks**)

c. Explain the effects of human overpopulation on health (**3 Marks**)

**Section B – 40 Marks -** *Answer any two questions*

**Question Four**

a. Discuss the importance of biological diversity. **(10 marks)**

b. Discuss the most practical ways of reducing municipal water demands **(10 Marks)**

**Question Five**

a. Define deforestation and discuss fourhuman activities causing deforestation in Kenya **(10 marks)**

b. Discuss five practical ways to control the current water pollution in Nairobi, Kenya. (**10 Marks**)

**Question Six**

a. Explain food insecurity and discuss the main causes of food insecurity in Kenya. **(10 Marks)**

b.Discuss how Kenya iscontrolling extinction of wildlife. **(10 marks)**