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**END OF 1st TRIMESTER 2016 (FULL-TIME) EXAMINATION**

**FACULTY : 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**

1a. Describe any three long term problems associated with industrialized agriculture  **(3 Marks)**

b. Explain the significance of the ozone layer in the atmosphere to life on earth? **(3 marks)**

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

2a. Name three greenhouse gases and state one major anthropogenic source for each. **(3 marks)**

b. State three reasons why the current sources of energy in the world are considered to be unsustainable? **(3 marks)**

c. Explain the effects of human overpopulation on health (**4 Marks**)

3a. State the ecological definition of environment and describe types of natural environments **(3 Marks)**

b. Describe any four consequences of overdrawing of water surface and underground water **(3Marks)**

c. State four ways of regulating the commons **(4 marks)**

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

4a. Explain five significances of biological diversity. **(10 marks)**

b. Explain five practical ways how municipal water demands can be reduced **(10 Marks)**

5a. Define deforestation and discuss fourhuman activities that are causing deforestation in Kenya **(10 marks)**

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

6a. Explain food insecurity and eight of food insecurity in Kenya.

 **(10 Marks)**

b.Explain five ways by which various countries using to control extinction of wildlife. **(10 marks)**