THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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MAIN EXAMINATION

AUGUST – DECEMBER 2015 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF BIOLOGY

SCHOOL FOCUSED PROGRAMME

BIO 405: CONSERVATION BIOLOGY

Date: DECEMBER 2015	**Duration: 2 Hours**
INSTRUCTIONS: Answer Question ONE and ANY OTHER TWO Questions	

Q1. a) Give THREE importances of a rare species inventory. **(3 marks)**

b) Explain the importance of the following types of species in designing a nature reserve

i Focal species

ii Priority taxa

iii Flagship species **(6 marks)**

c) Give reasons why the following steps are necessary during a biodiversity survey, and explain how each is achieved

i Standardization

ii Monitoring

iii Sampling effort **(6 marks)**

d) What encompass the THREE levels of biodiversity and why should each level be conserved. **(6 marks)**

e) Explain why the following aspects are necessary when designing a nature reserve

i Diverse reserves

ii Linkages between reserves

iii Maintaining ecosystem processes and structures **(9 marks)**

Q2. Explain TEN ways conservation bodies have contributed towards the recovery of endangered biodiversity. Give examples. **(20 marks)**

Q3. Describe FIVE challenges to biodiversity conservation and give ways on how each of the challenges can be overcome. **(20 marks)**

Q4. Discuss the various characteristics that lead to population changes. **(20 marks)**

Q5. a) What is an Environmental Impact Assessment (EIA)? **(3 marks)**

b) What THREE goals does the EIA aim at achieving? **(3 marks)**

c) Explain any SEVEN principles that should be considered in undertaking an Environmental Impact Assessment (EIA) **(14 marks)**

END