



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

A. M. E. C. E. A

MAIN EXAMINATION

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JANUARY – APRIL 2014 TRIMESTER

FACULTY OF ARTS AND SOCIAL SCIENCES

DEPARTMENT OF DEVELOPMENT STUDIES

EVENING PROGRAMME

SDS 212: SCIENCE AND TECHNOLOGY

Date: APRIL 2014

Duration: 2 Hours

INSTRUCTIONS: Answer Question ONE and ANY OTHER TWO Questions

- Q1. a) Define the following terms:
- i) Science **(5 marks)**
 - ii) Science and technology **(5 marks)**
- b) Identify and discuss the changes that were experienced in production processes as a result of the 2nd industrial revolution. **(10 marks)**
- c) What are the advantages of backwardness according to A. Gerschenkron (1962)? **(10 marks)**
- Q2. a) Discuss the main achievements of the “Islamic World” in the middle ages. **(10 marks)**
- b) Why did China not attain an industrial revolution similar to Europe? **(10 marks)**
- Q3. a) Why was Science and Technology considered an important ingredient for fostering development in third world countries particularly after the second world war? **(10 marks)**

- b) Identify and discuss the challenges that developing countries encountered in their effort to adopt western technology. **(10 marks)**
- Q4. Discuss at least **TWO** moral/ethical controversies clearly showing the areas of controversy. **(20 marks)**
- Q5. a) Identify the environmental changes attributed to the development process. **(10 marks)**
- b) Using examples, discuss the various ways that the Global Community addresses these challenges. **(10 marks)**

END