



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

A. M. E. C. E. A

MAIN EXAMINATION

MAY - JULY 2016 TRIMESTER

FACULTY OF ARTS AND SOCIAL SCIENCES

DEPARTMENT OF DEVELOPMENT STUDIES

REGULAR PROGRAMME

SDS 212: SCIENCE AND TECHNOLOGY

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Date: JULY 2016

Duration: 2 Hours

INSTRUCTIONS: Answer Question ONE and ANY OTHER TWO Questions

- Q1. a) Highlight on significance of 3D printing technology. **(5 marks)**
- b) Show the ways in which science and technology are similar. **(5 marks)**
- c) Present the technologies that have emerged in the Green Revolution of the modern world. **(5 marks)**
- d) Show how satellite navigation is helpful to civilians. **(5 marks)**
- e) Present the result of a failure to address disability using science and technology. **(5 marks)**
- f) Show how the world will benefit from the bionic leaf. **(5 marks)**
- Q2. a) Identify the carbFix project **(10 marks)**
- b) Discuss the global benefits of the carbFix project. **(10 marks)**
- Q3. a) Explain how scientific knowledge leads to new applications. **(10 marks)**

- b) Analyze what a country's government can do to increase the interest of its citizens in science and technology. **(10 marks)**
- Q4. a) Identify the medical advancements that have been made possible by science and technology in the modern world. **(10 marks)**
- b) Discuss the benefits that the world will enjoy from the discovery of the 39 unreported and major sources of toxic sulphur dioxide. **(10 marks)**
- Q5. Explain FIVE characteristics of science and FIVE characteristics of technology. **(20 marks)**

END