



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

A. M. E. C. E. A

MAIN EXAMINATION

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JANUARY – APRIL 2018 TRIMESTER

FACULTY OF ARTS AND SOCIAL SCIENCES

DEPARTMENT OF DEVELOPMENT STUDIES

REGULAR PROGRAMME

SDS 212: SCIENCE AND TECHNOLOGY

Date: APRIL 2018

Duration: 2 Hours

INSTRUCTIONS: Answer Question ONE and ANY OTHER TWO Questions

- Q1. a) Highlight on the 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) Discuss five characteristics of technology **(10 Marks)**
- b) Explain how scientific knowledge leads to new applications **(10 Marks)**
- Q3. a) Explain what a country's government can do to increase the interest of its citizens in science and technology. **(10 Marks)**
- b) Elaborate on the importance of studying the history of science and technology **(10 Marks)**

- Q4. a) Explain the factors that determine the choice of technology. **(10 Marks)**
- b) Discuss the various ways of using scientific knowledge **(10 Marks)**
- Q5. a) Explain, with supporting arguments, the position that scientific knowledge is created **(10 Marks)**
- b) Elaborate on the negative applications of Science and technology in the modern world. **(10 Marks)**

END