

UNIVERSITY OF CAPE COAST

DEPARTMENT OF ECONOMICS

END OF SECOND SEMESTER EXAMINATION, 2012/2013 ACADEMIC YEAR  
[SANDWICH]

ETD 801S: SCIENCE, TECHNOLOGY & DEVELOPMENT

TIME ALLOWED: 2HRS

**INSTRUCTION:** *In all, answer three questions [section C is compulsory; and answer one question from section A and one from B]*

*Credit will be given for clarity and logical presentation of facts.*

*Do not write anything on the question paper*

**SECTION A: Akwaaba [answer only one question- All questions carry equal marks]**

1. Distinguish between
  - a. Appropriate technology and Inappropriate technology
  - b. New technology and Emerging technology
  - c. Codified technology and Tacit technology
  - d. Core/modular components of technology and Peripheral components of technology
  
2. Write a short note on the following:
  - a. The phases in technology development
  - b. Three basic core values of development
  - c. The technology Atlas Project Team's disaggregation of firm's technology

**SECTION B: Begin to think [answer only one question- All questions carry equal marks]**

3. Highlight any four (4) special characteristics which make technical information a very particular factor of production.
4. Explain the distinction between Sabato's triangle of innovation and the Tripple Helix model of innovation.
5. Summarize the factors which inhibit the implementation of the Triple Helix model of innovation in developing countries.

**SECTION C: Critical thinking (compulsory)**

6. Following the G8s' one-day brainstorming retreat, dubbed "The Way Forward For Africa" at Elmina Beach Resort on 21<sup>st</sup> January 2013, the Leaders will be holding a meeting at Golden Tulip Hotel (Accra) to discuss the outcome of the discussion at the retreat, among other issues and topics.

The Leaders took note of changing conditions in the nation and Africa at large, especially as regards:

- the worsening socio-economic conditions and the need for the Institutions to be part of the solution
- incorporation of S&T policy into the developmental agenda

The central question of this upcoming meeting is; what has science and technology contributed to Ghana and African development at large?

**Requirement**

*In preparation for the upcoming meeting, your president has asked you to examine ONE platform generic technologies with wide applicability for development and how it is contributing to achieving national goals.*