



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL INFORMATICS AND INNOVATIVE SYSTEMS**  
**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF**  
**BUSINESS ADMINISTRATION**  
**4<sup>TH</sup> YEAR 1ST SEMESTER 2013/2014 ACADEMIC YEAR**  
**CENTRE: MAIN**

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**COURSE CODE: SCS 409**

**COURSE TITLE: IT AND SOCIETY**

**EXAM VENUE: AH**

**STREAM: BBA**

**DATE: 6/12/2013**

**EXAM SESSION: 9.00 – 11.00 AM**

**TIME: 2 HOURS**

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**Instructions:**

- 1. Answer question 1 (Compulsory) and ANY other 2 questions.**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

## QUESTION ONE

Charles Babbage spent most of the rest of his life (unsuccessfully) trying to build and perfect the machine, which was called by many of his contemporaries, "Babbage's folly."

Required;

- a) Which one came first between Babbage's folly and Analytical Engine (2 marks)
- b) Mention at least three characteristics of Analytical Engine in terms of its functions  
.(2 marks Each)
- c) A working model of a "DIFFERENCE ENGINE" produced in 1822 by Babbage was powered by \_\_\_\_\_(steam, Alternating Current, Direct Current, Solar Energy, None of the above). SELECT ONE ONLY (2 marks)
- d) Define the following term; (4 marks)  
What is Process?
- e) What do you understand by the term Algorithm? (4 marks)
- f) Civil Liberties play a major role in all Countries – What does this refer to? (4 marks)
- g) State what you understand by the term Intellectual Property (4 marks)
- h)
- i) )
- j) Indicate some Areas where intellectual property copy rights would be applied.(4 Marks)

## QUESTION TWO 20 Marks

- a) State two characteristics in Second Computer Generations between 1956-1963.  
.(6 marks)
- b) Cloud computing poses some specific challenges to privacy and security. Discuss indicating possible areas of challenges. (8 marks)
- c) Software refers to programs and programs refer to set of instructions that tell the computer what to do. State what is meant by Source Code or Source Program  
.(2 marks)
- d) Distinguish between Source program and Object program. (4 marks)

## QUESTION THREE 20 Marks

Explain the following terms with reference to Critical Systems and Software Safety

(20 marks)

- a) Hazard:
- b) Incident
- c) Accident
- d) Risk:

#### **QUESTION FOUR 20 Marks**

- a) State two positive internet contributions and two negative contributions. (8 marks)
- b) Distinguish between computer and Computing (6 marks)
- i. Computer (6 marks)
  - ii. Computing (6 marks)

#### **QUESTION FIVE 20 Marks**

Intellectual Property Right can be subdivided into six major categories; eg Patent, Database right etc.

- a) List the other four major Intellectual Property Right categories (8 marks)
- b) Explain each one of the four in terms of their application (3 Marks Each)