



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS**

**UNIVERSITY EXAMINATIONS FOR THE DEGREE OF BACHELORS OF**

**COMMUNITY HEALTH AND DEVELOPMENT / PUBLIC HEALTH**

**WITH I.T**

**3<sup>rd</sup> YEAR, 1<sup>ST</sup> SEMESTER 2016/2017 ACADEMIC YEAR**

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**COURSE CODE: SCS 3124**

**COURSE UNIT: INFORMATION TECHNOLOGY AND SOCIETY**

**EXAM VENUE BUSIA L.CENTRE**

**DATE: DECEMBER, 2016**

**TIME :2 HOURS**

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**Instructions**

- 1. Answer question one (compulsory) and any other two 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 examinations room**

**QUESTION ONE (30 MARKS)**

- a) Define a computer system (2marks)
- c) What's the difference between discrete and continuous data? (4marks)
- (d) Explain FIVE advantages of written forms of health communication (10marks)
- d) Discuss the FIVE advantages of using computers in a health institution (10marks)
- f) Describe four information security controls that may be implemented in a health facility (4marks)

**QUESTION TWO (20 MARKS)**

- a) What is meant by primary and secondary storage in an information system? (4marks)
- b) Explain how to determine the appropriate communication channels in health communication programmes (10-marks)
- c) Print and electronic media are classified as some of the types of media used in health communications. Identify three disadvantages of electronic media. (6marks)

**QUESTION THREE (20 MARKS)**

- c) Evaluate the types of networks available for data communications in a health facility (5marks)
- b) Discuss five key technological trends that heighten ethical concerns when using computers. (10 marks)
- b) Explain five programmes that can be classified as application programmes used in health information systems (5marks)

**QUESTION FOUR (20 MARKS)**

- a) Describe the functions of each of the following (5marks)
  - i. An output device
  - ii. An input device
  - iii. Memory
  - iv. Arithmetic/logic unit
  - v. Control unit
- b) Explain in detail the meaning of intellectual property (5marks)
- c) Explain FIVE potential challenges of integrating technology into a health facility (10 marks)

**QUESTION FIVE (20 MARKS)**

- a) Evaluate the importance of using a computer data base in a health facility (10 marks)
- b) Explain how a computer network can facilitate health communication between different health facilities (6marks)
- c) Discuss four types of threats in an information system environment (4marks)