



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS
DEPARTMENT OF COMPUTER SCIENCE & SOFTWARE ENGINEERING
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
PUBLIC HEALTH AND COMMUNITY HEALTH DEVELOPMENT
2ND YEAR 1ST SEMESTER 2016/2017 ACADEMIC YEAR
MAIN CAMPUS

COURSE CODE: SCS 3124

TITLE: IT AND SOCIETY

COURSE EXAM VENUE:

STREAM:

DATE: EXAM SESSION:PHCD

TIME: 2HRS

INSTRUCTIONS

- 1. Answer ONE(COMPULSORY) and ANY 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 examination room**

QUESTION 1 [30 MARKS]

- a. What are the differences between Data and Information (5 marks)
- b. Describe what Internet is all about stating its benefits to your studies and later in your career. (10 marks)
- c. Explain the following terms Computer, Software, Hardware, Data and Information (5 marks)
- d. Describe societal issues as regards to the following factors (6marks)
 - i. Digital right management
 - ii. Privacy of medical records
 - iii. Safe communication
- e. Outline four limitations of computers in the society today (4marks)

QUESTION 2 [20 MARKS]

- a. State three reasons why Information changing from a scarce resource to an abundant resource. (3marks)
- b. State and briefly explain the merits and demerits of machines performing functions previously carried out manually. (7marks)
- c. "Information Technology urges people to evaluate value systems in the society". Briefly describe. (5marks)
- d. 4. List five major impacts of I.T on Individuals, organizations and society (5marks)

QUESTION 3 [20 MARKS]

- a. Describe five emerging issues in I.T usage in the modern health institutions (5marks)
- b. Describe five contributions of Information Technology on the quality public and community health services. (5marks)
- c. Describe the use of Information Technology in Health care and medicine giving references to Telemedicine, Robotics, and Surgery epidemiology disease diagnosis and prevention (10marks)

QUESTION 4 [20 MARKS]

- a. What are the differences between Data and Information (5 marks)
- b. Describe what Internet is all about stating its benefits to your studies and later in your career. (10 marks)
- c. Explain the following terms Computer, Software, Hardware, Data and Information (5 marks)

QUESTION 5 [20 MARKS]

- a. Internet is a worldwide computer network that connects hundreds of thousands of smaller networks. These Networks link Health facilities, educational, commercial, and nonprofit organizations and military entities as well as Individuals. Outline challenges that might arise in carrying out activities in the mentioned organization in the event that internet as a world wide computer network is absent (10marks)
- b. Explain how Information Technology can eliminate the barriers of Time, Space and Distance? (6marks)
- c. Describe three challenges of use of computers in the society today (3marks)