



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION
AND ARTS

4th YEAR 1st SEMESTER 2015/2016 ACADEMIC YEAR

MAIN CAMPUS

COURSE CODE: **SCS 409**

COURSE TITLE: **INFORMATION TECHNOLOGY AND SOCIETY**

EXAM VENUE: STREAM: BED ARTS

DATE: EXAM SESSION:

TIME: 2.00 HOURS

INSTRUCTIONS:

1. Answer Question 1 (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 examination room

QUESTION ONE 30 MARKS

- a) Computer plays major roles in our daily lives. Identify and Explain area of application of computers in the modern society (5 MARKS)

- b) ICT development has changed every aspect of the human society ,explain the impact of internet technology and how it has influence changes on business scope, function and operation (5 MARKS)

- c) Differentiate between hacking and cracking with reference to computer crimes. (5 MARKS)

- d) How can privacy be prevented in regard to data and information? (5 MARKS)

- e) What is a computer virus? Explain the measures you would take to protect your computer from virus attacks. (5 MARKS)

- f) List and explain the differences between computer ethics and computer law (5 MARKS)

QUESTION TWO 20 MARKS

a) Discuss briefly on the following legal aspects of computer technology and security measures.

- a) Authentications
- b) Cryptography
- c) Digital signature
- d) Fire walls

(10 MARKS)

a) Why do we need copyrights for data and information? explain tapping, piracy and fraud while dealing with compute crimes (10 marks)

QUESTION THREE 20 MARKS

a) Explain any five security threats to data and information and Control measures against each threat

(10 marks)

b) Explain the impact of internet technology on the following operations:

- a) Research practices
- b) Long distance learning
- c) Crafting business strategies

(10 MARKS)

QUESTION FOUR 20 MARKS

a) Give five rules that must be observed to keep within the law when working with data and information.

(10 MARKS)

b) Explain the evolution of computers using an appropriate components used in building the processor and giving an example of each generation (10 MARKS)

QUESTION FIVE 20 MARKS

- a) Identify and discuss some of the social implication of computer technology in the society (10 marks)
- b) discuss briefly on intellectual property law and give reasons why it is important to have such law (10 MARKS)