



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR BACHELOR OF EDUCATION ARTS

SPECIAL RESIT

MAIN CAMPUS

COURSE CODE: SCS 409

COURSE TITLE: IT AND SOCIETY

EXAM VENUE: LAB 1

DATE: 05/05/16

EXAM SESSION: 9.00 – 11.00 AM

TIME: 2 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) Define the term Computer Ethics. (1marks)
- b) The “digital divide” refers to the gap between those that have (or lack) access to computers and the Internet. The debate has centered on TWO key critical issues. Explain. (4 marks)
- c) There are five indicators of the digital divide. List and explain the role of each. (10 marks)
- d) Giving 2 reasons, explain why computer students should learn Ethics. (2 marks)
- e) Briefly explain at least five advantages of cyber security to an organization. (10 Marks)
- f) Define the following words; (3 Marks)
 - i. Society,
 - ii. Morality
 - iii. Ethics.

QUESTION 2 (20 Marks)

- a) Clearly elaborate some of the safety tips to protect against cybercrime . (4Marks)
- b) State any seven principles that software engineers shall adhere to when performing their duties according to software engineering code of ethics and professional practice
- c) Identify and briefly explain four factors considered by courts to determine fair use of copyrighted work according to the Doctrine of Fair Use (6 marks)
- d) The following are some forms of cybercrimes. Citing relevant examples where necessary, describe them. (10 Marks)
 - i. Computer vandalism
 - ii. Cyber terrorism
 - iii. Software piracy
 - iv. Hacking
 - v. Denial of service attack
 - vi. Child pornography

QUESTION 3 (20 Marks)

- a) Briefly discuss why social media usage in Kenya today is becoming a challenge to social cohesion and integration. (5Marks)
- b) “IT professionals must act with Professional Competence and Integrity”. Give THREE explanations as to what this means using relevant examples. (5marks)
- c) Compare and contrast the protection that copyright and trademarks can provide for computer games
- d) What do you understand by the term digital divide? (5 Marks)
- e) How has IT contributed to the advocacy and campaign efforts in the society? (5 Marks)

QUESTION 4 (20 Marks)

- a) State the advantages and disadvantages of telecommuting (8 marks)
- b) Identify *three* approaches that can be followed to curb crimes on the internet. (6 Marks)
- c) Briefly explain the 3 types of digital divide (6 Marks)

QUESTION 5 (20 Marks)

- a) Identify *at least five* perceived harms of internet to culture and society. (10 Marks)
- b) The internet has come with a number of advantages since its conception. Discuss at least five of these benefits to society. (10 Marks)