



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS**  
**UNIVERSITY EXAMINATION FOR THE DEGREE OF BSC IN INFORMATION**  
**COMMUNICATION TECHNOLOGY**  
**4<sup>TH</sup> YEAR 1<sup>ST</sup> SEMESTER 2022/2023 ACADEMIC YEAR**  
**(MAIN CAMPUS)**

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**COURSE CODE: ICB 3405**

**COURSE TITLE: ICT AND SOCIETY**

**EXAM VENUE:**

**STREAM :( BSc ICT)**

**DATE:**

**EXAM SESSION:**

**TIME:**

**NO of STUDENT: 80**

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**INSTRUCTIONS:**

- 1) Answer Questions 1 (Compulsory) and ANY other Two (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**
- 4) No mobile phones in the examination room.**

### **QUESTION 1 (30 Marks)**

- a) What is Privacy? (2 marks)
- b) Why is personal information valued? (4 marks)
- c) Your grandmother is quite forgetful and as a legal guardian, you have the authority to access her bank account to pay her bills. Her account has some 2 million in deposit from remittances from her children abroad. As the adhoc account manager, would it be ok to deduct a small service "service fee" for your services? Yes or No? Discuss the ethical considerations involved (8 marks)
- d) Using the scenario described in the previous illustration you have a temporary need for 50, 000 to pay your bills. You should be able to repay the loan when you get paid end month. Is it in order to proceed on and lend yourself money from your grandmother's account? Discuss the ethical dilemma in this situation. Since your grandmother is so forgetful you feel there's no point in asking her permission -you expect that she would probably say yes, anyway. (10 marks)
- e) Explain why the widespread use of the internet has resulted in an increase intellectual property threats. (6 marks)

### **QUESTION 2 (20 Marks)**

- a) Describe three technology trends that pose ethical issues, giving an example for each of its ethical or moral impact. (10 marks)
- b) Describe ways in which nonobvious relationship awareness (NORA) is being used by both the government and the private sector? (10 marks)

### **QUESTION 3 (20 Marks)**

- a) What specific principles for conduct can be used to guide ethical decisions? (10 marks)
- b) What is the digital divide and how does it impact society? (10 marks)

### **QUESTION 4 (20 Marks)**

- a) One of the capabilities of Internet communication is the ability of the individual to appear essentially anonymous by using made-up user names. Is anonymity the same thing as privacy, and should it be a right? What ethical issues are raised by increased anonymity? (10 marks)
- b) What do you consider to be the primary ethical, social, and political issues regarding the quality of a software product? (10 marks)

### **QUESTION 5 (20 Marks)**

- a) How does the use of electronic voting machines act as a "double-edged sword?" What moral dimensions are raised by this use of information technology? (10 marks)
- b) Kim is one of JOOUST students who enjoys writing computer programs to give to his friends who are preparing for senior projects each semester. He frequently comes to the campus over the weekends to when no student is present and uses the lab number 4 to build his programs. Before entering the campus Kim always asks for permission from the security and he is allowed in. (10 marks)
- i. Is the action of using university computers over the weekend by Kim ethical?

- ii. What are some of the consequences of Kim's action of writing programs to other students
- iii. Which of the above theories would justify the Kim's action.
- iv. Which of the theories would support the action of students who receive written programs from Kim?