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**KIRIRI WOMEN'S UNIVERSITY OF SCIENCE AND TECHNOLOGY  
UNIVERSITY EXAMINATION, 2023/2024 ACADEMIC YEAR  
SECOND YEAR, SECOND SEMESTER EXAMINATION  
FOR THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION**

**KCS 001 – COMPUTING PROFESSIONAL ETHICS**

Date: 16<sup>th</sup> August, 2023  
Time: 11:30AM – 1:30PM

**INSTRUCTIONS TO CANDIDATES**

**ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS**

**QUESTION ONE (30 MARKS)**

- a) Outline the critical ethical concerns that have arisen within computing and information technology (IT), particularly following the rise of the internet, social platforms and artificial intelligence. (8 Marks)
- b) Explain the following terminologies as applied in computing ethics; (3 Marks)
- i) Computer ethics (3 Marks)
- ii) Computing Professionals (3 Marks)
- c) Given Moor's account of the nature of computer ethics. Why is computer ethics an especially important branch of applied ethics? (6 Marks)
- d) In practice there are a number of computer ethics computing professionals need to uphold while using, designing or maintaining computer systems. Highlight the ten commandments of computer ethics. (10 Marks)

**QUESTION TWO (20 MARKS)**

- a) The core issues surrounding computer ethics are based on the use of the internet. Outline clear advantages and disadvantages of the internet (8 Marks)
- b) Describe measures computing professionals need to apply in order to minimize internet privacy violation risks. (6 Marks)
- c) State and explain some unethical computing practices that professionals need to be aware of in their day to day interaction with computer systems. (6 Marks)

### **QUESTION THREE (20 MARKS)**

- a) Computing professionals have ethical obligations and professional responsibilities to fulfill. Describe eight responsibilities of computing professionals. (8 Marks)
- b) Protecting children online is a global challenge and it takes a holistic approach to promoting child online safety, developing strategies that span key areas. Describe the key areas stakeholders are supposed to adhere to for a fruitful children online protection practices. (8 Marks)
- c) Protecting children online is a global challenge, which requires a global approach. Outline the various challenges encountered while enacting children one-line protection in Kenya (4 Marks)

### **QUESTION FOUR (20 MARKS)**

- a) State and Explain key objectives of computer misuse and cybercrime act number five of 2018 in Kenya. (8 Marks)
- b) The digital era has immensely contributed to children online education, in the spirit of promoting, respecting, protecting and fulfilling all children's rights in the digital environment, outline four guiding principles that guarantee children's rights in the digital environment. (8 Marks)
- c) Highlight in what ways a virus can affect your computer system during this era of computing technology. (4 Marks)

### **QUESTION FIVE (20 MARKS)**

- a) As a computer professional in higher learning institution specialized in computer programming and regularly you do receive complaints on incidences of corrupted data from members of non-teaching staff tasked with admission of students on their computer systems. Outline the several ways you can put in place protect their computer from viruses. (6 Marks)
- b) Describe various challenges faced by the government of Kenya to curb noxious speech and hate groups. (6 Marks)
- c) Computing professionals must understand the relevant social, ethical, and professional issues that surround their activities. Outline emerging technological advancements that have complicated their code of conduct. (8 Marks)

