



# REFORMED CHURCH UNIVERSITY

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## FACULTY OF EDUCATION AND SOCIAL SCIENCES

### BACHELOR OF SCIENCE HONOURS DEGREE IN INFORMATION TECHNOLOGY

#### Ethical and Security Issues in Technology

#### HICT 213

#### Part 2 Semester 1 Examination

**Total Marks [100]**

Date: October 2024

Time: 3 Hours

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### INSTRUCTIONS

1. This paper has *six (6)* questions
2. Answer any *four (4)* questions
3. Each question carries *25 marks*
4. Start each question on a new page

### **QUESTION 1**

- a) Describe five characteristics of a professional computer technologist. **[10 marks]**
- b) Discuss problems that public and private Universities may face because of misuse of their ICT and information system resources. **[15marks]**

### **QUESTION 2**

- a) You are the CEO of Branding Hub consulting firm with headquarters in Harare, your company has sold a Zetty Software to Chapwati Company. List and explain the contents of the draft sale contract for this transaction. **[8 marks]**
- b) Discuss three benefits of Public University ICT staff signing code of conduct. **[5 marks]**
- c) Using examples define the following:
- i. Copyright
  - ii. Ethics
  - iii. Phishing **[12 marks]**

### **QUESTION 3**

- a) Using three reasons discuss why computer society of Zimbabwe should involve ICT professionals in completion of public policy in ICT. **[9 marks]**
- b) Differentiate the following terms:
- i. Information technology and information systems
  - ii. Risk and threat to information systems
  - iii. Tangible and intangible resources **[9 marks]**
- c) Explain why banking information systems should be monitored **[7 marks]**

### **QUESTION 4**

- a. The IT industry is increasingly aware of its own environmental impact. Discuss at least three environmental problems to which the industry contributes and how, as an IT professional, you can help to solve this problem. **[9 Marks]**
- b. Offer the best argument either for the institution of proprietary software, or for the institution of free software. **[8Marks]**

- c. Describe the essential elements relating to conduct that identify a professional activity. **[8 Marks]**

### **QUESTION 5**

- a. Briefly discuss whether technology determines society or if society determines technology **[8 Marks]**
- b. Clearly explain how can information and information systems be used to gain power and, thereby create additional ethical issues **[7 Marks]**
- c. Discuss the moral obligations incurred through becoming a member of a professional body such as the Computer Society of Zimbabwe, and how would you justify these moral obligations **[10 marks]**

### **QUESTION 6**

- a. Should the Zimbabwe government place any restrictions on Internet information available to its citizens especially in the advent of the use of social media to spread hate speech **[8 marks]**
- b. If your line manager asked you to download software from an unauthorised source, as a personal favour. Briefly discuss ethical issues raised by this scenario. **[8 Marks]**
- c. The “magical” experience of browsing the World Wide Web often lulls users into a false sense of security. The Web seems like a “virtual” space, where neither personal identities nor consequences for behaviour exist. Discuss with reference to ethical and morality issues raised by anonymity **[9 Marks]**

**END OF PAPER**