



UGANDA BUSINESS AND TECHNICAL EXAMINATIONS BOARD

Business and Humanities Certificate Examinations

MAY-JUNE 2024 SERIES

PROGRAMME

NCICT, NCCM, NCCE

PAPER NAME

COMPUTER ETHICS

PAPER CODE

NCCM213/NCIT213/NCCE211

YEAR II, SEMESTER I

2½ HOURS

MONDAY, 20TH MAY, 2024

INSTRUCTIONS TO CANDIDATES

1. *This paper consists of **two** sections **A** and **B**.*
2. *Section **A** is compulsory and carries **20** marks.*
3. *Section **B** consists of **six** questions. Answer only **four** questions from this section.*
4. *All questions carry equal marks.*
5. *All answers to each question should begin on a fresh page.*
6. ***Do not** write on the question paper.*
7. *All answers and rough work should be written in the official answer booklet provided.*
8. *Read other instructions on the answer booklet.*

SECTION A - (20 MARKS)

Answer all questions in this section.

Question One

- (a) Define **identity theft** as applied to computing. (02 marks)
- (b) List **two** forms of ICT ethics. *password, privacy* (02 marks)
- (c) Explain the importance of ethical behaviors to different computer users. (04 marks)
- (d) Describe the following forms of attacks in computers
 - (i) Denial of service. (02 marks)
 - (ii) Trojan horses. (02 marks)
 - (iii) Ransom (02 marks)
- (e) Outline **two** ethical challenges in ICT. (02 marks)
- (f) Describe **two** cyber laws in Uganda. (04 marks)

SECTION B - (80 MARKS)

Answer only four questions from this section.

Question Two

Zaga Zaga is a hard worker at his workplace but also a movie fan. He uses the fast speed internet connection at his workplace to constantly run torrents to download movies. The Network Administrator detected his actions and advised him to stop but he didn't heed to advice.

- (a) Explain **three** ethical rules the Network Administrator needs to put in place as a result of Zaga Zaga's actions. (06 marks)
- (b) Describe **two** risks to the network as a result of Zaga Zaga's actions. (06 marks)
- (c) Advise Zaga Zaga on **four** best ethical practices he should follow. (08 marks)

Question Three

While installing an application on your smartphone, you discovered that it's requesting access to features (such as phone calls, camera, photo gallery, voice recorder, GPS location and many more) which are not related to the application functionality.

- (a) State **two** risk factors associated with such applications. (02 marks)
- (b) Explain **two** ethical concerns the developers of such applications should be aware of. (06 marks)
- (c) Describe **three** best practices to follow before installing such applications. (12 marks)

Question Four

- (a) Define **computer ethics**. (02 marks)
- (b) Explain **five** reasons why computer professionals should study computer ethics. (10 marks)
- (c) Outline **four** unethical behaviors exhibited by social media users. (04 marks)
- (d) Describe **two** ways which can be used to address computer misuse. (04 marks)

Question Five

A team of hackers accessed a computer system of the certain organization and stole some information from their computers. As a result, the Systems Administrator was forced to think on how to secure the system to avoid future attacks.

- (a) State **two** possible ways the hackers could have gained access to the system. (02 marks)
- (b) Describe **four** security measures the Systems Administrator should put in place to avoid future attacks. (08 marks)
- (c) Explain **two** ways software attacks occur. (04 marks)
- (d) Outline **six** commandments of computer ethics users should follow to avoid such attacks from hackers. (06 marks)

- Steal, - Hack,
- abuse, - access without permission.
- duplicate, - respect copyright.
- Spread false file.

Question Six

- (a) Define **data privacy** as used in computer ethics. (02 marks)
- (b) Explain the following in relation to computer ethics
 - (i) Security breach. (04 marks)
 - (ii) Copyright infringement. (04 marks)
 - (iii) Digital divide. (04 marks)
- (b) KULAP a mobile money agent who has been in operation for four years has accumulated thousands of phone contacts for his clients. A friend advised him to sell the phone numbers to bulk SMS agents to make some money. State the obligation KULAP has for his clients? (06 marks)

Question Seven

- (a) Define the term **internet etiquette**. (02 marks)
- (b) Outline **four** examples of social media sites/applications. (04 marks)
- (c) Describe **four** dangers of internet usage. (08 marks)
- (d) Explain **three** methods of safeguarding websites. (06 marks)

END