

BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF SCIENCE AND ENGINEERING

COMPUTER SCIENCE DEPARTMENT

BSc HONORS DEGREE IN COMPUTER SCIENCE/INFORMATION TECHNOLOGY

ETHICS AND PROFESSIONALISM -CS104/NWE104/SWE104

2 HOURS 30 MINUTES

INSTRUCTION TO CANDIDATES

OC1 2024

This paper carries five (5) questions. Answer ALL.

Marks are indicated in brackets at the end of each question. Total marks are 100.

Question 1

- a) Whistle-blowers are those employees or ex-employees of a company who report their company's misdoings and expose the wrongful and unethical actions of their employer(s).

Distinguish internal and external whistle-blowers. [4]

- b) There are rules and provisions made for whistle-blowers who report wrongdoing of their seniors.

Explain any three of the rules and provisions. [6]

- c) In Accreditation and Code of Conduct, a Computer Society accredits Higher Degree programmes. Describe two requirements that are considered when deciding whether to accredit a degree. [10]

Question 2

- (a) A local software developer has produced an application for smart phones. The application displays text and individual images to a mobile phone user and plays audio and video produced by the application.

Explain how the Copyright, Designs and Patents Act, and the Trademarks of a named country could be used to protect the application from this company.

[15]

- (b) Under Data Protection Act of a named country, how shall personal data be obtained by an organization to ensure data was treated fairly? [5]

Question 3

- (a) Distinguish a profession and professionalism. [4]
- (b) Outline any four guidelines for a responsible professional in a computing and technology industries. [4]
- (c) David is in a position to influence the selection of suppliers for a variety of IT equipment that his firm purchases annually. At his birthday, he usually receives tokens from several salesmen, ranging from cheap perfume to a bottle of soft drinks. This year, however, one salesman sends David an expensive smart phone.
Explain how David should handle this gift in his profession. [12]

Question 4

- a) A Bindura university student hacks into the administration system of the university where he is studying and alters his marks. Discuss how the Computer Misuse legislation of a named country would apply to this situation. [10]
- b) Explain what a Zimbabwe business would need to do to comply with Consumer Protection Act of a named country. [10]

Question 5

- a) Describe three examples of how professional bodies can contribute to professional practice for their members. [12]
- b) Explain any four types of harm that may be suffered by clients when they want to receive help from service providers. [8]

*****END OF PAPER*****