



TECHNICAL UNIVERSITY OF MOMBASA

INSTITUTE OF COMPUTING AND INFORMATICS

Select department

UNIVERSITY EXAMINATION FOR:

BACHELOR OF TECHNOLOGY IN INFORMATION COMMUNICATION

TECHNOLOGY

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

CIT 4301 PROFESSIONAL ETHICS IN IT: Type unit name.

END OF SEMESTER EXAMINATION

SERIES: DECEMEBER 2024

TIME :2 HOURS

DATE:Pick DateDec 2024

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of FIVE questions. Attempt question ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

Questions ONE

- a) Explain the difference between the following terms: (16 Marks)
- "Phishing" and "Pharming"
 - "Computing Laws" and "Computing Ethics"
 - "Code of Ethics" and "Code of Conduct"
 - "Computer Crime" and "Computer Misuse"
- b) Explain the following terms:
- Breach of warranty
 - Breach of condition
 - Software piracy (6 Marks)
- c) Explain any four categories different categories of computer misuse as identified by Scottish Law report (1987) (8 Marks)



TUM is ISO 9001:2015 Certified

Question TWO

- a) Explain the following terms: (10 Marks)
- i) ICT Fraud
 - ii) Technostress
 - iii) Software contract
 - iv) Breach of Contract
 - v) Contract
- b) Using suitable examples, any three essential elements that make a contract valid. (6 Marks)
- c) Explain any two reasons why studying Professional Ethics in IT is important to IT Graduates (2 Marks)
- e) Work environment stress is mainly caused by a variety of factors. Explain any two such causes (2 Marks)

Question THREE

- a) Explain any three similarities between "Ethics" and "Laws" (6 Marks)
- b) Richard Stallman established the Free Software Foundation (FSF) and has campaigned against software ownership. Explain any three characteristics of "Free Software" (6 Marks)
- c) Describe any four professional responsibilities of ICT/ IT professionals (8 Marks)

Question FOUR

a) Productivity of workers depends on the quality of their physical and mental state. Employers have always strived to make their workers happy, healthy, and productive.

Required:

- i) Explain any three ways you, as an employer, can increase your workers' productivity (6 Marks)
- ii) Explain the following term "Ergonomics" (2 Marks)
- iii) Identify any two remedial measures to take to alleviate RSIs (2 Marks)
- b) Explain the difference between "Copyright" and "Patent" (4 Marks)
- c) Distinguish between "Free Open Source Software" and "Proprietary Software" (4 Marks)

Question FIVE

- a) Explain the following terms:
- i) Intellectual property
 - ii) Trademarks
 - iii) Law of confidence
 - iv) Law of design (4 Marks)
- b) Explain any four functions of an ethical code (4 Marks)
- c) Recent advances in computer technology have resulted in wider computer applications in previously unthinkable areas such as space exploration, missile and aircraft guidance systems, and life-sustaining systems.

Required:

- i) Explain the term "Unsafe software" (2 Marks)
- ii) State any four characteristics of good and safe software (4 Marks)
- d) Explain any three classes of Fraud offences (6 Marks)

