



GRE TSA UNIVERSITY - THIKA

UNIVERSITY EXAMINATIONS JANUARY-APRIL 2025 SEMESTER

CERTIFICATE IN INFORMATION TECHNOLOGY

COURSE CODE: CFIT 024

COURSE TITLE: ICT & EMERGING TRENDS

DATE: APRIL 2025

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

- a) SECTION A IS **COMPULSORY**.
- b) SECTION B: ANSWER ANY OTHER **TWO** QUESTIONS.
- c) **DO NOT** WRITE ANYTHING ON THIS QUESTION PAPER AS IT WILL BE AN EXAM IRREGULARITY.
- d) ALL ROUGH WORK SHOULD BE AT THE BACK OF YOUR ANSWER BOOKLET AND CROSSED OUT.

CAUTION: All exam rooms are under CCTV surveillance during the examination period.

SECTION A: COMPULSORY

Question One

- a) Discuss the following Tenets of disruptive technologies citing two examples in each case
- i. In Education [3 marks]
 - ii. In Health [3 marks]
 - iii. In transport sector [3 marks]
 - iv. In the government [3 marks]
 - v. In Communication [3 marks]
- b) Discuss the key Challenges posed by emerging issues and trends in ICT [5 marks]
- c) Highlight any five ethical guidelines for the information technologist professional [5 marks]
- d) Differentiate between computing laws and ethics [5 marks]

SECTION B: ANSWER ANY TWO QUESTIONS

Question Two

- a) Explain any five ways in which technology has improved the Transport Sector [10 marks]
- b) Discuss the Key issues that trigger changes in ICT [5 marks]
- c) Giving specific examples, Discuss the application areas of Artificial Intelligence [5 marks]
- a)**

Question three

TechNoi consultants LTD has been operating on manual systems.

- i. Explain any five challenges the organization is likely to face as a result of the manual systems [10 marks]
- ii. Suggest any five solutions to the challenges identified in (i) above [10 marks]

Question Four

- a) Define the term cloud computing [2 marks]
- b) Discuss the Ethical issues raised by different emerging technologies. [10 marks]
- c) Discuss any four benefits of mobile banking in Kenya today [8 marks]

Question Five

- a) Discuss any five ways in which internet of things has changed our society [9 marks]
- b) Write short notes on the following technologies [6 marks]
 - i. Augmented Reality
 - ii. Big data
 - iii. Artificial Intelligence
- c) Discuss the application of Augmented and Virtual reality in different sectors [5 marks]