



**KAIMOSI FRIENDS UNIVERSITY
FOURTH YEAR SECOND SEMESTER UNIVERSITY
EXAMINATIONS**

2025/2026 ACADEMIC YEAR

SUPPLIMENTARY EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF IT /COMPUTER SCIENCE

COURSE TITLE: DISASTER RECOVER

COURSE CODE: BIT 421

DATE: 17/6/2026

TIME: 3-5PM

INSTRUCTIONS TO STUDENTS

- 1. ANSWER QUESTION ONE AND ANY OTHER TWO FROM THE CHOICES GIVEN.**
- 2. PHONES, SMART WATCHES, EAR PHONES OR ANY OTHER UNAUTHORIZED DIGITAL AND AI GADGETS AND APPLICATIONS ARE NOT ALLOWED IN THE EXAMINATION ROOM.**
- 3. ANSWER ALL QUESTIONS IN THE EXAM ANSWER BOOKLET PROVIDED.**
- 4. DO NOT WRITE ON THIS QUESTION PAPER.**
- 5. ALL KAFU EXAMINATION RULES AND REGULATIONS APPLY.**
- 6. DURATION OF EXAMINATION: TWO (2) HOURS**

KAFU observes ZERO tolerance to examination cheating.

SECTION A – COMPULSORY (30 MARKS)

CASE SCENARIO:

TechRecover Ltd experienced a network failure that disrupted cloud services for several clients. Their backup was outdated and some critical systems could not be restored promptly. Clients demanded explanations and compensation.

QUESTION ONE

- a) Identify the **legal and ethical implications** of this failure. (10 Marks)
- b) Discuss the disaster recovery failures that contributed to this incident. (10 Marks)
- c) Recommend improvements to disaster recovery planning and testing. (10 Marks)

SECTION B – ANSWER ANY TWO QUESTIONS (20 MARKS EACH)

QUESTION TWO

A government agency's IT systems were offline for three days due to a flood affecting the data center. There was no off-site backup or contingency plan.

- a) Analyze the legal and societal implications. (10 Marks)
- b) Propose a disaster recovery plan suitable for a government agency. (10 Marks)

QUESTION THREE

- a) Explain cloud-based vs on-premise backup solutions. Discuss their advantages, disadvantages, and suitability for disaster recovery. (10 Marks)
- b) Evaluate how emerging technologies such as virtualization, cloud computing, and AI can enhance disaster recovery planning. Include examples of practical applications. (10 Marks)

QUESTION FOUR

An e-commerce company lost customer transaction data after a server crash. No periodic disaster recovery drills were conducted.

- a) Identify failures in risk management and disaster recovery. (10 Marks)
- b) Suggest mitigation strategies for future incidents. (10 Marks)

QUESTION FIVE

Discuss the relationship between disaster recovery and business continuity strategy. Explain how they ensure organizational resilience. (20 Marks)