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**UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR**

**END OF SEMESTER EXAMINATIONS
YEAR FOUR SEMESTER ONE EXAMINATIONS**

**FOR THE DEGREE OF BACHELOR OF SCIENCE
COMPUTER SCIENCE**

COURSE CODE : CSC 473E

COURSE TITLE : DISASTER RECOVERY

DATE: 04 / 12 / 2023

TIME: 14:00 HRS – 16:00 HRS

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (COMPULSORY) [30 MARKS]

- a) Describe four most likely causes of system failure in a factory with five hundred employees producing five hundred thousand products per day using robots. [4 Marks]
- b) Differentiate between damages classified as crisis and negligible [4 Marks]
- c) Give your understanding of the following terms as used in disaster recovery [7 Marks]
- i. Restoration plan
 - ii. Risk
 - iii. Vulnerability
 - iv. Threat
 - v. Interruption window
 - vi. Hazard
 - vi. Incident
- d) As a system security manager, describe definite indicators that will show that an incident has occurred to your systems. [5 Marks]
- e) Describe the duties of the crisis team in an organization. [5 Marks]
- f) Highlight five most likely causes of data loss in an organization [5 Marks]

QUESTION TWO [20 MARKS]

- a) What is a business impact analysis in regard to disaster recovery? [2 Marks]
- b) Discuss four key considerations a disaster recovery team considers when conducting a Business Impact Analysis in their organization. [8 Marks]
- c) Describe five ways or strategies which the incidence response team can attempt to recover control in the event of an incident occurring. [10 Marks]

QUESTION THREE [20 MARKS]

- a) A disaster is normally considered to be an event or happening. Detail five characteristics that make an event qualify to be classified as a disaster in a University environment. [10 Marks]
- b) Electronic data crimes do not have evidence similar to other crimes.
- i. Describe five rules that are used in the collection of evidence. [5 Marks]
 - ii. Outline the steps that are used in evidence collection. [5 Marks]

QUESTION FOUR [20 MARKS]

- a) What is the main goal of contingency planning? [2 Marks]
- b) To ensure continuity across all of the contingency planning processes during the planning process, discuss key issues that contingency planners should consider and address. [10 Marks]
- c) Compare and contrast differential and incremental backup methods. [8 Marks]

QUESTION FIVE [20 MARKS]

- a) Discuss four categories that controls can be classified. [12 Marks]
- b) Explain the following:
- i. Hot site [2 Marks]
 - ii. Warm site [2 Marks]
 - iii. Cold site [2 Marks]
- c) Give four cloud deployment models that can be used in data recovery [2 Marks]