(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS
2021/2022 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS
YEAR FOUR SEMESTER ONE EXAMINATIONS

FOR THE DEGREE OF
(COMPUTER SCIENCE)

COURSE CODE   :   **CSC 473E**

COURSE TITLE   :   DISASTER RECOVERY

DATE: 19/05/2022   TIME: 02:00 P.M – 04:00 P.M

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (COMPULSORY) [30 MARKS]

a. Illustrate your understanding of the following terms as used in disaster recovery.

    i. Alternate process model   [1 Mark]

    ii. Restoration plan   [1 Mark]

    iii. Business continuity   [1 Mark]

    iv. Manmade vulnerability   [1 Mark]

    v. Risk   [1 Mark]

b. Interpret to your CEO why contingency planning is a critical function in the daily operations of the organization.   [3 marks]

c. As the chief ICT officer in your organization, construct levels that you can classify the different services in your organization.   [8 marks]

d. Using examples, contrast between manmade and human induces disasters.   [4 marks]

e. i. Demonstrate your understanding of contingency planning.   [2 marks]

ii. Explain the MAIN goal of contingency planning.   [2 marks]

f. Recommend the activities that the Incident Response team can do to stop the incident and attempt to recover control.   [4 marks]

g. Controls are designed to defend a vulnerable system. With examples, give two classifications of controls.   [2 marks]

QUESTION TWO [20 MARKS]

a. i. State three conditions a threat needs to meet for it to be classified as an incident [3 marks]

    ii. Summarize the activities that the incident response team will use to show:

        Possible indicators of an incident   [3 marks]

        Probable indicators of an incident   [3 marks]

        Definite indicators of an incident   [3 marks]

b. Explain four categories of controls that can be used to mitigate risks during planning for unexpected events in an organization.   [8 marks]

QUESTION THREE [20 MARKS]

a. An organization has to choose one basic strategy to control risk. Examine in details four strategies that can be used in the control of risks in an organization. [12 marks]

b. What is the importance of a cost benefit analysis in the preparation of a disaster recovery plan for any organization. [6 marks]

b. Give four extreme deletion techniques that can be used to delete data. [2 marks]

QUESTION FOUR [20 MARKS]

a. Elaborate to your CEO some of the most likely causes of data loss in an organization that relies heavily on computing resources in its day to day activities. [10 marks]

b. i. As the head of an investigative team sent to collect evidence on a computer crime case, explain to your team the rules of evidence that you need to collect. [6 marks]

ii. Give examples of volatile evidence that you can collect. [2 marks]

iii. Give two methods of collecting volatile evidence. [2 marks]

QUESTION FIVE [20 MARKS]

a. i. What is CDP? [2 marks]

ii. Explain how CDP works to computing students attached to your office. [8 marks]

b. i. Outline the importance of Rollbacks in data protection. [4 marks]

i. Illustrate two types of rollbacks. [4 marks]

iii. Differentiate between CDP and mirroring. [2 marks]