



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2021 / 2022 ACADEMIC YEAR

SPECIAL / SUPPLEMENTARY EXAMINATIONS YEAR FOUR SEMESTER TWO EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE COMPUTER SCIENCE

COURSE CODE : CSC 473E

COURSE TITLE : DISASTER RECOVERY

DATE: 16/11/2022 TIME: 11:00 A.M – 1:00 P.M

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (COMPULSORY) [30 MARKS]

- a) Give a contrast between a damage classified as negligible and a major damage. [2 marks]
- b) Identify different aspects of a Business Impact Analysis that makes it a crucial for an organization in the event of a disaster. [4 marks]
- c) Giving examples, determine ways in which a disaster recovery team can classify disasters. [4 marks]
- d) Briefly illustrate instances where an organization can validly choose acceptance as a risk control strategy. [4 marks]
- e) i) Give two uses of data recovery [1 mark]
- ii) List four methods that can be used in data recovery. [4 marks]
- f) Explain the meaning of continuous data protection (CDP) as used in disaster recovery. [1 mark]
- ii) Identify different models that can be used for cloud deployment in disaster recovery. [5 marks]
- g) ~~Computing resources loss can be caused in many ways. Using a table, compile the different typical causes of loss indicating their source.~~ [5 marks]

QUESTION TWO [20 MARKS]

- a) You are the Systems administrator for your organization. On reporting to duty after a week end, you suspect that there has been an incident that breached the organization security controls. Propose the following:
- i) Possible indicators of an incident [3 marks]
 - ii) Probable indicators that the incident occurred [3 marks]
 - iii) Definite indicators of the incident [3 marks]
- b) The CID department has consulted your ICT firm to collect for them volatile data from computer systems of an organization suspected of money laundering.

i) Construct a document detailing some of the volatile evidence you are likely to collect. [6 marks]

ii) Recommend to them the steps of collecting the evidence so that they can offer technical and security services during the course. [5 marks]

QUESTION THREE [20 MARKS]

a) Controlling risk is accomplished by implementing controls or safeguards. Elaborate in detail four categories of controls that a business can put in place to safeguard computing assets. [8 marks]

b) You have been selected by your organization to give a presentation on different types of backup facilities available in disaster recovery. Analyze the different types giving details of what facilities each one entails. [12 marks]

QUESTION FOUR [20 MARKS]

You are the Managing Director of your organization and you are in the process of developing a Disaster recovery plan. With your knowledge of the risks that your organization faces and the operating environment, build a sample Disaster Recovery plan that you will present to the top level management for approval in the next board meeting. [20 marks]

QUESTION FIVE [20 MARKS]

a) A disaster occurs in the event where computer systems in an organization have failed to perform their duties as expected. As an expert in the field, propose different causes of the above and detail how each can cause losses to the organization if not checked before they happen. [10 marks]

b) Interpret the following techniques as used in secure deletion of data.

i) Degaussing [5 marks]

ii) Multiple overwrites [5 marks]