MASINDE MULIRO UNIVERSITY OF

SCIENCE AND TECHNOLOGY

(MMUST)

MAIN CAMPUS

UNIVERSITY SPECIAL/SUPPLEMENTARY EXAMINATIONS

2021/2022 ACADEMIC YEAR

SPECIAL/SUPPLEMENTARY EXAM

FOR THE DIPLOMA

IN

INFORMATION TECHNOLOGY

COURSE CODE: DBT 074

COURSE TITLE: COMPUTER SYSTEM SECURITY

DATE: TUESDAY 02/08/2022   **TIME: 11AM – 1PM**

INSTRUCTIONS TO CANDIDATES

Answer **Questions ONE** and **ANY OTHER TWO IN SECTION B**.

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 3 Printed Pages. Please Turn Over.

Section A Answer all questions from this section

Question one

a) Indicate ways of securing digital data   (4 marks)

b) Explain password mistakes that make a system vulnerable to attacks   (3 marks)

c) Briefly explain following concepts

     (i)   Spyware

     (ii)   Denial of service

     (iii)   Cybercrime

     (iv)   Rootkit   (8 marks)

d) What is computer security   (2marks)

e) State any three malware fighting tools   (3marks)

f) State and explain any three types of computer security   (6Mks)

Section B Answer any two questions from this section

Question Two

a) What are the advantages of storing data digitally   (10 Mks)

b) Discuss ways of safe guarding data from digital threats   (8 Mks)

Question Three

a) Describe what is a firewall and explain the THREE states of connection   (10 marks)

b) Explain the following terms and state how they can be prevented

     (i)   Man in the middle attack   (4marks)

     (ii)   Spoofing attack   (4 marks)

Question Four

a) Describe user behavior elements that can lead to security threats or attacks   (18mks)

Question Five

a) Describe risks involved in storing files in the clouds   (10Mks)

b) Describe Four elements of an effective security system   (8Mks)