(Knowledge for Development)

KIBABII UNIVERSITY
(KIBU)

UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS
FIRST YEAR FIRST SEMESTER EXAMINATIONS

FOR THE DIPLOMA IN
(INFORMATION TECHNOLOGY)

COURSE CODE: DIT 057

COURSE TITLE: COMPUTER REPAIR AND MAINTENANCE

DATE: 22/12/2022   **TIME: 9.00 A.M – 11.00 A.M**

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (COMPULSORY) [24 MARKS]

(a) Explain the function of the following computer component.   [6 marks]

   i.   Ports

   ii.   Expansion slot

   iii. CMOS

(b) What is the main work or purpose of a computer system case?   [6 marks]

(c) When opening a computer for repair, a technician should observe some precaution to avoid damage to the computer system, outline some of these precaution one should consider.   [6 marks]

(d) Imagine you have been given a computer that is very noisy, sluggish, overheats and shuts down when watching a movie. As a computer technician give ways through which you can troubleshoot, repair and maintain the computer system.

(e) Explain different types of ports found on a computer system.   [6 marks]

QUESTION TWO [18 MARKS]

(a) Explain the following terms   [6 marks]

   i.   VGA

   ii.   USB

   iii. Power Supply

(b) What are the two functions of a power supply unit (PSU) in a computing device?   [6 marks]

(c) What are the two types of damages that can be caused on devices by ESD   [6 marks]

QUESTION THREE [18 MARKS]

(a) List THREE steps a PC technician needs to take to protect themselves against electrical shock and burns.   [6 marks]

(b) What are some of the precautions a technician should observe when repairing a computer?   [6 marks]

(c) Name and describe FIVE Computer factors that makes a computer to be slow? [6 marks]

QUESTION FOUR [18 MARKS]

(a) Explain the function of the following computer component. [6 marks]

   i.   System Fan

   ii.   Motherboard

   iii.   CPU

(b) Discus THREE main factors that can make a computer fail to boot. [6 marks]

(c) When selecting a printer what are some of the factors you should put into consideration. [6 marks]

QUESTION FIVE [18 MARKS]

(a) Briefly describe the THREE main types of printers bringing out the differences.

[6 marks]

(b) Explain the symptoms of a computer attacked by a deadly virus. [6 marks]

(c) How can computer virus be prevented from spreading? [6 marks]