



(Knowledge for Development)

KIBABII UNIVERSITY

**UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR**

**SPECIAL EXAMINATIONS
YEAR ONE SEMESTER ONE EXAMINATIONS**

**FOR THE DIPLOMA IN INFORMATION
TECHNOLOGY**

COURSE CODE : DIT 057

**COURSE TITLE : COMPUTER SYSTEMS
MAINTENANCE**

DATE: 19/10/2018 TIME: 11.30A.M. – 1.30P.M.

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE AND ANY OTHER TWO

QUESTION ONE [24 MARKS]

- a. Describe how the following practices can be used to improve and solve the most common computer problems [6 marks]
- i. Troubleshooting
 - ii. Repair
 - iii. Maintenance
- b. Outline causes of damage of computer power supply system [6 marks]
- c. Describe the function of the CMOS battery [4 marks]
- d. Define the term ESD [2 marks]
- e. Describe what precaution should be taken minimize ESD effects in a computer system [6 marks]

QUESTION TWO[18 MARKS]

- a) Briefly explain the following types of memory. [10 marks]
- a. RAM
 - b. ROM
 - c. PROM
 - d. PROM
 - e. EEPROM
- b) Explain the steps through which a Computer undergo during Booting Process. [8 marks]

QUESTION THREE[18 MARKS]

- a) State and explain THREE harddisk utility tools [6 marks]
- b) Explain the motherboard installation procedure [6 marks]
- c) List the most likely component to fail in a computer system. [6 marks]
- d)

QUESTION FOUR [18 MARKS]

- a) Discuss FIVE basic components of a hardware [10 marks]
- b) Describe how are POST errors displayed in a computer system? [8 marks]

QUESTION FIVE [18 MARKS]

- a) Define the term computer virus [2 marks]
- b) List and describe different types of computer virus [6 marks]
- c) Describe general symptoms of a computer infected with virus [4 marks]
- d) Explain preventative measures that can be put in place to protect a computer system from viruses. [6 marks]