



MURANG'A UNIVERSITY OF TECHNOLOGY

SCHOOL OF COMPUTING AND INFORMATION TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE

UNIVERSITY ORDINARY EXAMINATION

2018/2019 ACADEMIC YEAR

**SECOND YEAR FIRST SEMESTER EXAMINATION FOR DIPLOMA IN
INFORMATION TECHNOLOGY
SCS 052-COMPUTER MAINTENANCE AND REPAIR**

DURATION: 2 HOURS

DATE: 16/4/2019

TIME: 2-4 P.M.

Instructions to candidates:

1. Answer question One and Any Other Two questions.
2. Mobile phones are not allowed in the examination room.
3. You are not allowed to write on this examination question paper.

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION TWO (30 MARKS)

- (a) Describe any five components of a motherboard. (5marks)
- (b) Describe the three types of system documentation. (6marks)
- (c) Explain any five factors to consider when purchasing a hard disk. (5marks)
- (d) State the importance of the following system support tools. (6marks)
 - i. Hemostats
 - ii. LAN tester
 - iii. Chip Inserter and Extractor
 - iv. File outlet tester
 - v. Multi-meter
- (e) Installing the OS on a desktop PC is often a very different problem than installing a corporate database server. Outline any three ways to install an operating system on a desktop PC. (6marks)
- (f) State any two functions of a power supply unit. (2marks)

SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION

QUESTION TWO (20 MARKS)

- a) Describe any three functions of a system bus. (6marks)
- b) Outline any four monthly maintenance procedures you should perform. (4marks)
- c) Differentiate between a surge suppressor and an uninterruptible power supply.(2marks)
- d) Describe the procedure of disassembling a computer and the issues related to it.(8marks)

QUESTION THREE (20 MARKS)

- a) Describe the following types of maintenance giving an example of each:
 - i. Active maintenance
 - ii. Passive maintenance (4marks)
- b) Describe any three types of motherboard form factor. (6marks)
- c) Explain any three functions of BIOS. (6marks)
- d) Explain any two types of interfaces of connecting mouse. (4marks)

QUESTION FOUR (20 MARKS)

- (a) State any five functions of a RAM tester. (5marks)
- (b) Describe any two types of the following components: (4marks)
- i. Input devices
 - ii. Output devices
- (c) Differentiate between the following terms. (6marks)
- i. RAM and ROM
 - ii. Microprocessor and floating point unit
 - iii. DIN5 and PS/2
- (d) Describe the boot process of a computer. (5marks)