

# TECHNICAL UNIVERSITY OF MOMBASA

## INSTITUTE OF COMPUTING AND INFORMATICS

# DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

## **UNIVERSITY EXAMINATION FOR:**

DICT/MAY/2019

# ECS 2102: COMPUTER WORKSHOP PRACTICE END OF SEMESTER EXAMINATION

**SERIES:**AUGUST2019

TIME:2HOURS

DATE: Pick Date Aug 2019

#### **Instructions to Candidates**

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **FIVE** questions. Attemptquestion ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

#### **Question ONE (30 marks)**

- a) Explain the following terms:
  - i. Blackout
  - ii. Brownout
  - iii. Raceways
  - iv. Computer Virus
  - v. System file checker (5 marks)
- b) State and explain **four** classes of fire extinguishers.

(8 marks)

c) There are two ESD tools, name and explain each tool.

(4 marks)

- d) Explainsixelectrical safety guidelines that will prevent electrical fires and injuries in a computer workshop. (6 marks)
- e) State and explain**five**recommendations before disposing old computer parts.

(5 marks)

f) Explain any **two**computer workshop rules.

(2 marks)

#### **Question TWO (15 marks)**

- a) Describe**five**major considerations when designing a computer lab. (10 marks)
- b) Explain**five** futurejob opportunities available for a student with computer workshop practices skills.

(5 marks)

## **Question THREE (15 marks)**

- a) Distinguish between ESD and EMI. Give a suitable example on each. (5 marks)
- b) Using a sketch diagram, explain any **five**hand tools used in a computer workshop. (10 marks)

#### **Question FOUR (15 marks)**

- a) Discuss any **five** disadvantages of computer workshop skills in the society. (10 marks)
- b) To help shield against power fluctuation problems, use power protection devices to protect the data and computer equipment, state and explain **two** power protection devices. (5 marks)

#### **Question FIVE (15 marks)**

a) Explain lab security and controls of the following:

**(10 marks)** 

- i. Computer viruses
- ii. Unauthorized access
- iii. Theft
- iv. Fire
- b) You are a computer tech savvy at Twig Errands Company. Your senior technician has reported to you fivecontinuous beep sounds from a PC, you were suspecting a memory failure. Briefly explain how to troubleshoot the computer issue. (5 marks)