

# THE TECHNICAL UNIVERSITY OF MOMBASA

# Faculty of Engineering & Technology

# DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

CERTIFICATE IN BUILDING & CIVIL ENGINEERING (CBCE/SEP12/S-EV)

ECT 1101: INTRODUCTION TO COMPUTER SCIENCE

SPECIAL/SUPPLEMENTARY EXAMINATION SERIES: FEBRUARY 2013
TIME: 2 HOURS

### **Instructions to Candidates:**

You should have the following for this examination

Answer Booklet

This paper consist of FIVE questions

Answer question ONE (COMPULSORY) and any other TWO questions

Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

# **Question One (Compulsory)**

a)	Define a computer.	(2 marks)
<b>b</b> )	What is the difference between single bus structure and two bus structure?	(4 marks)
c)	Explain the data input methods you have encountered.	(5 marks)
d)	Distinguish between system software and application programs.	(4 marks)
e)	Why is saving a file important?	(2 marks)
f)	Describe the user, interface and give an example.	(3 marks)
g)	Distinguish between data and information.	(4 marks)
h)	Explain the functions of peripherals of a computer system.	(6 marks)

### **Question Two**

a) Describe data collection methods.	(5 marks)
<b>b)</b> Explain with the common types of system software/programs.	(8 marks)
c) Define batch data processing.	(2 marks)

# **Question Three**

a)	What is a computer operating system?	(2 marks)
b)	Discuss with examples the various types of operating systems.	(10 marks)
c)	What is a file and with an example explain how you can modify its contents.	(3 marks)

### **Question Four**

- a) Describe the functions of these peripheral and indicate areas where they are used. (10 marks)
  - (i) Optical Character Reader (OCR)
  - (ii) Printer
  - (iii) Digitizer tablet
  - (iv) Plotters
  - (v) Scanner
- b) What are the advantages of a word processor application over a type writer? (5 marks)

# **Question Five**

a)	Explain the functions of the computer operating system.	(5 marks)
b)	Discuss the common types of application software.	(6 marks)
c)	Describe a spreadsheet and areas where they are commonly used.	(4 marks)