

TECHNICAL UNIVERSITY OF MOMBASA  
FACULTY OF ENGINEERING AND TECHNOLOGY  
DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING  
EEE2103 COMPUTER PROGRAMMING

SERIES:           MAY 2016

Instructions

- This paper consists of FIVE questions
- Answer any THREE questions
- All Questions carry equal marks

### QUESTION ONE

- (a) Distinguish between on line processing and real time processing giving ONE application for case. (6 marks)
- (b) Draw a block diagram and describe distributed computing (6 marks)
- (c)(i) Explain the operation of batch processing technique
- (ii) Explain any TWO characteristics of computer networks (8 marks)

### QUESTION TWO

- (a) Explain THREE characteristics of an operating system (6 marks)
- (b) Describe the classification of the following:
- i. Application software
  - ii. System software (8 marks)
- (c) Explain the functions of the following:
- i. WAN
  - ii. LAN
  - iii. Word processor (6 marks)

### QUESTION THREE

- (a) Explain the following terms as used in databases
- i. report
  - ii. record
  - iii. macro (6 marks)
- (b) Describe the procedure for creating each of the following in Ms Access:
- i. A table
  - ii. A form (10 marks)
- (c) Distinguish between a query and a page in Ms Access (4 marks)

#### QUESTION FOUR

- (a) With ONE example in each case explain the following programming languages
- i. Structured programming
  - ii. Event driven programming
  - iii. Website development languages (12 marks)
- (b) Distinguish between fourth generation and fifth generation programming languages giving ONE example for each case (8 marks)

#### QUESTION FIVE

- (a) (i) State any THREE presentation software
- (ii) Explain any FOUR features of presentation software (11 marks)
- (b) Explain the procedure in each of the following in Ms PowerPoint
- i. Naming and saving a presentation
  - ii. Inserting a new slide
  - iii. Adding and formatting a text
  - iv. Adding clip art (9 marks)