

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering and Technology

DEPARTMENT OF ELECTRICAL & ELECTRONIC ENGINEERING

UNIVERSITY EXAMINATIONS FOR DIPLOMA IN TECHNOLOGY (ELECTRICAL & ELECTRONIC ENGINEERING)

EEE 2103

COMPUTER PROGRAMMING

END OF SEMESTER EXAMINATION

SERIES: AUGUST 2019

TIME: 2 HOURS

DATE:

Instructions to Candidates You should have the following for this examination *-Answer Booklet, examination pass and student ID* This paper consists of **five** Questions Attempt any THREE Questions. Do not write on the question paper.

QUESTION ONE

(a) Explain any THREE functions of presentation software(b) Explain any TWO word processors and give ONE example in each case	(6 marks)
(c) Explain the function of any THREE types of spreadsheet	(8 marks)
(c) Explain the function of any TTIKEE types of spreadsheet.	(6 marks)

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QUESTION TWO

- (a) Explain the following terms as used in computer networks:
 - (i) Ethernet
 - (ii) Segment
 - (iii) Hub
 - (iv) Router (8 marks)
- (b) Explain any THREE characteristics of the following networks
 - (i) LAN (ii) WAN (6 mar
- (ii) WAN (6 marks)(c) Describe the steps necessary for making a RJ-45 plug termination of an Ethernet cable.
 - (6 marks)

(6 marks)

(3 marks)

QUESTION THREE

- (a) State any THREE functions of a DBMS
 (b) Explain any FOUR components of a DBMS
 (c) 8 marks)
- (c) With the aid of a diagram explain the three-tier architecture of a DBMS
- (d) Explain the following terms:
 - (i) Entity
 - (ii) Relation
 - (iii) Relationship

QUESTION FOUR

- (a) Define the following terms
 - (i) Programming language
 - (ii) Compiler
 - (iii) Interpreter (6 marks)
- (b) Explain FOUR factors to consider when choosing a programming language (8 marks)
- (c) Explain the THREE types of programming languages and give ONE example in each case. (6 marks)

QUESTION FIVE

- (a) With the aid of diagrams explain the systems:
- (i)Client- server(ii)Peer-to-peer(6 marks)(b)Explain the THREE database normal forms(8 marks)(d)Explain FOUR database relationships:(6 marks)