

TECHNICAL UNIVERSITY OF MOMBASA

INSTITUTE OF COMPUTING AND INFORMATICS

Select department

UNIVERSITY EXAMINATION FOR:

DICTSEP/2016

ECS 2103: PROGRAMMING METHODOLOGY SPECIAL/ SUPPLEMENTARY EXAMINATION

SERIES: SEPTEMBER 2018

TIME: 2HOURS

DATE: Sep 2018

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **FIVE** questions. Attemptany THREE questions.

Do not write on the question paper.

Question ONE

- (a) Explain the following terms as used in computer programming.
 - i) Debugging
 - ii) Translator
 - iii) Program
 - iv) Assembler (8 marks)
 - b) Explain the following levels of programming languages.
 - i) Assembly programming language

(6 marks)

ii) Object oriented programming language

(6 marks)

Question TWO

(a) Explain the advantages of program flowchart as program design tools.

(6 marks)

- b) Develop a program Pseudocode to read the names and scores for ten students. It should calculate and report the grade average. (6 marks)
- c) Explain the term looping control structures.

(4 marks)

d) state four types of programming error		(4 marks)
Question T	HREE	
a) Explain the	e following programming techniques	
i)	Modular programming	
ii)	Event driven programming	
iii)	Web programming	
iv)	Visual programming	(8 marks)
(b)) Explain any five logical operators		(10 marks)
c) State the importance of program hierarchy chart		(2 marks)
Question Fo	our	
(a) Develop	a C program to read the name and score of a s	tudent. The program should calculate the status
	llowing. If score is equal to or greater than 50 t	
Biveir the 10	(10 marks)	Tell status is 17155 otherwise 17112.
/b) Evalain	· · · · · · · · · · · · · · · · · · ·	(2 mayles)
(b) Explain the term Array as used in programming		(2 marks)
c) Explain any four characteristic of arrays		(8 marks)
Question F	IVE	
(a) Write	e a C Program to read TEN Integer Values, then	display the THIRD Largest element. Use a loop
` '	(10 mg	

- (10 marks)
- (b) Explain any five arithmetic operators **(10 marks)**