



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

DIPLOMA IN TECHNOLOGY TELECOMMUNICATION & INFORMATION ENGINEERING V COMPUTER SCIENCE ENGINEERING IV

EET 3503: COMPUTER INSTALLATION & MAINTENANCE II

END OF SEMSTER EXAMINATIONS

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Question paper
- *A Non-programmable calculator*

Answer question $\bf ONE$ ($\bf COMPULSORY$) and any other $\bf TWO$ questions This paper consists of $\bf THREE$ printed pages

Qu	estion 1 (Compulsory)	
a)	Describe the term maintenance and state why it is necessary to computers	(2 marks)
b)	Outline the FOUR types of maintenance programs and state TWO advantages and TWO disadvantages for each type. (20 marks)	
ŕ	Explain the procedure of restoring a computer system whose hard disk has crashed. (8 marks)	
Qu	estion 2	
a)	State THREE causes of equipment failure and their remedies	(6 marks)
b)	Describe the following types of trouble shooting techniques.	
	i) Systematic ii) Half-split	(8 marks) (2 marks)
c)	Deduce the following IBM POST error codes;	
	i) 1XX ii) 2XX iii) 3XX iv) 5XX	(4 marks)
Qu	nestion 3	
a)	Explain the meaning of the following AMI BIOS beep codes;	
	i) 2 short beepsii) 7 short beeps	(2 marks)
b)	Name THREE common problems with computer systems	(3 marks)
c)	State the effects of the following actions; i) Connecting a USB and a PS/2 keyboard on the same computer ii) Fitting a RAM memory module loosely or the other way round iii) Placing high wattage speakers next to a CRT video display unit iv) Shifting the position f a computer that is on and running a program.	
۹)	Design a diagnostic flowshart for a computer system	(8 marks)
u)	Design a diagnostic flowchart for a computer system	(7 marks)
Qu	nestion 4	
a)	Explain the term defragmentation and state its importance as used in the computer world. (4 marks)	

b) Design the following documents;

i)

A job card A maintenance form

(16 marks)

Question 5

a) Outline the requirements of a computer workshop (10 marks)b) Name FIVE upgradable parts in a computer system (5 marks)

- c) Explain the function of the following programs
 - i) Anti-virus

ii) Scan disk (5 marks)