

TECHNICAL UNIVERSITY OF MOMBASA

INSTITUTE OF COMPUTING AND INFORMATICS

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR:

BACHELOR OF BUSINESS INFORMATION TECHNOLOGY

BIT 2223: PC HARDWARE & TROUBLESHOOTING

END OF SEMESTER EXAMINATION

SERIES: APRIL2016

TIME:2HOURS

DATE: Pick Date May 2016

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 question ONE (Compulsory) and any other TWO questions. **Do not write on the question paper.**

EIT 4103: PC HARDWARE & TROUBLESHOOTING

Question ONE

a) b)	•	the significance of the Last known good configuration in windows start option. the following terms PATA POST	(4 Marks)
	iii.	ZIF	(6 Marks)
c)	List and	explain the THREE main functions of CMOS BIOS program.	(6 Marks)
d)	Give the i. ii. iii.	e error message and suggest a possible solution if one of the following error conditions w A sudden system shut down A dislodged SATA cable to a hard disk drive Incorrect setting for hard disk drive	vere to occur (6 Marks)
e)	Explain	the purpose of preventive maintenance.	(4 Marks)

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f)	Explain the advantages of a good preventive maintenance program	(4 Marks)			
Question TWO					
a)	Using diagrams explain any FOUR power connectors found in a power supply unit.	(8 Marks)			
b)	Using diagrams explain any SIX internal connectors found on a motherboard.	(12 Marks)			
Question THREE					
a)	a) Name any SIX system unit components and give the observations one would make if any of th component were to fail.				
b)	Name FOUR software components that are found in any computer installation providing an exa case.	mple in each (8 Marks)			
Quest	ion FOUR				
a)	List and explain the function of any FOUR utility programs.	(8 Marks)			
b) c)	 State the minimum system requirements for installing a given program. Explain the steps one needs to take to perform the following tasks i. Detect hardware conflict ii. Uninstall a device driver software iii. Determine memory allocation for a given application iv. Disable audio services 	(4 Marks) (8 Marks)			
Question FIVE					
a)	 State the likely cause and suggest a solution of the following CMOS errors i. CMOS Display mismatch ii. CMOS Memory size mismatch iii. CMOS Options not set iv. CMOS Checksum failure 				
	v. CMOS date and time not set	(10 Marks)			
b)	Explain the purpose of a CPU heat sink/cooler fan assembly.	(4 Marks)			
c)	Explain the term upgrade with reference to computer hardware.	(2 Marks)			
d)	Distinguish between Default installation and Custom installation of new software.	(4 Marks)			