

## **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 DateMay2016

#### **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.** 

#### **Question ONE**

a)	Explain	the significance of the Last known good configuration in windows start option.	(4 Marks)	
b)	Explain the following terms			
	i.	SATA		
	ii.	PCI		
	iii.	DIMM	(6 Marks)	
c)	List and	explain the THREE main functions of CMOS BIOS program.	(6 Marks)	
d)	Give the error message and suggest a possible solution if one of the following error conditions were to occur			
	i.	A Boot failure		
	ii.	A dislodged SATA cable to a hard disk drive		
	iii.	Incorrect setting for hard disk drive	(6 Marks)	
e)	Explain	the purpose of preventive maintenance.	(4 Marks)	
f)	Explain	the activities undertaken during a preventive maintenance exercise	(4 Marks)	
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#### **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)	Name any SIX system unit components and give the observations one would make if any of the named				
	component were to fail.	(12 Marks)			
b)	Name FOUR software components that are found in any computer installation providing an exa case.	mple in each (8 Marks)			
Question FOUR					
a)	List and explain the function of any FOUR utility programs.	(8 Marks)			
b)	State the minimum system requirements for installing an application program of your choice.	(4 Marks)			
c)	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	(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)			