

SCOTT CHRISTIAN UNIVERSITY

PROGRAME: BACHELOR OF BUSINESS INFORMATION TECHNOLOGY

UNIT NAME: HARDWARE SUPPORT AND MAINTAINANCE

UNIT CODE: BBIT 122

DECEMBER 2017 EXAM - 3 HOURS

INSTRUCTIONS: ANSWER QUESTION ONE AND ANY OTHER TWO

QUESTION ONE

OES	STION ONE					
a)	Differentiate	the following computer components:				
	i)	Integrated Device Electronic (IDE) and Basic Input O	utput System			
		(BIOS)	(2 Marks)			
	ii)	PCI Slots and ISA slots	(2 Marks)			
	iii)	PROM and EEPROM	(2 Marks)			
b)	Describe THI	REE characteristics of RAM	(3 Marks)			
c)	Explain the in	mportance of CMOS battery to a computer System	(2 Marks)			
d)	Describe the	scribe the probable causes of a computer monitor/screen appearing blank even after				
	being powere	d	(3 Marks)			
e)	Define the ter	m Computer motherboard	(2 Marks)			
f)	Explain two main types of Computer Motherboards used by computer Systems					
			(4 Marks)			
g)	Explain two o	lifferences between SIMM and DIMM Memory Modules	(4 Marks)			
h)	Explain in de	tail the entire procedure of assembling a computer system	(6 Marks)			
UES	TION TWO					

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a)	Explain	the importance	of the fol	lowing processor	components:
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	i) Control unit	(1 Mark)
	ii) ALU	(1 Mark)
	iii) Registers	(1 Mark)
b)	Explain the difference between Disk formatting and Disk defragr	nentation (2 Marks)
c)	Identify two tools required to perform computer maintenance	ce from technician's
	toolkit	(2
	Marks)	
d)	List four steps a PC technician needs to take to protect themsel	ves against electrical
		the state of the second state of the state of

(4 Marks) shock and burns.

e) What is an operating system and what are its main tasks in a computer system?

(4 Marks)

QUESTION THREE

- a) Name and describe FIVE main form factors to motherboards. (5 Marks)
 Name and describe FIVE processor features affect performance and compatibility
 with motherboards. (5 Marks)
- c) Describe the term Troubleshooting as used in computing (1 Mark)
- d) Distinguish between multi tasking and multi processing as used in processors (2 Marks)

QUESTION FOUR

- a) Briefly describe the main steps of installing an operating system to a computer's system (6 Marks)
- b) Explain the difference between system software and application software (4 Marks)
- c) Briefly describe the following electrical measurements as used in computers

(1 Mark each)

- i. Amps
- ii. Ohms
- iii. Volts
- iv. Watts
- v. Continuity

QUESTION FIVE

- a) briefly describe the following components found in a computer's motherboard

 (4 Marks)
 - i. Resistor
 - ii. Capacitor
 - iii. Diode
 - iv. Transistor
- d) Briefly explain the following diagnostic tools included as part of the operating system (2 Marks each)
 - i. BIOS POST
 - ii. DEFRAG.EXE
 - iii. MSD.EXE
 - iv. SCANDISK.EXE
 - v. SYSEDIT.EXE
- e) Describe the protocol that is used to automatically set up the IP address configuration of network PC (1 Mark)