

### 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**

a) Differentiate the following computer components:	~ ~		
i) Integrated Device Electronic (IDE) and Basic Inp	ut Output System		
(BIOS)	(2 Marks)		
ii) PCI Slots and ISA slots	(2 Marks)		
iii) PROM and EEPROM	(2 Marks)		
b) Describe THREE characteristics of RAM	(3 Marks)		
Euclain the importance of CMOS battery to a computer System	(2 Marks)		
<ul> <li>d) Describe the probable causes of a computer monitor/screen appearing blank even after</li> <li>(3 Marks)</li> </ul>			
being powered	(S Warks)		
a) Define the term Computer motherboard	(2 Marks)		
<ul><li>f) Explain two main types of Computer Motherboards used by computer Systems</li><li>(4 Marke)</li></ul>			
1) Explain two main opposition in	(4 Marks)		
g) Explain two differences between SIMM and DIMM Memory Mode	ules (4 Marks)		
<ul><li>g) Explain two differences between Shvivi and Divivi Memory memory memory in the hyperbolic system.</li><li>h) Explain in detail the entire procedure of assembling a computer system.</li></ul>	stem (6 Marks)		
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<b>QUESTION TWO</b>			
a) Explain the importance of the following processor components:			
	(1 Mark)		
i) Control unit ii) ALU	(1 Mark)		
iii) Registers	(1 Mark)		
The second second second provide the second se			
to perform computer maintenance from lecificial s			
c) Identify two tools required to perform computer manifements toolkit	(2		
<ul><li>Marks)</li><li>d) List four steps a PC technician needs to take to protect themselv</li></ul>	ves against electrical		
	(4 Marks)		
shock and burns.	uter system?		

e) What is an operating system and what are its main tasks in a computer system? (4 Marks)

rks)

rks) rks) analyst (6

irements (5

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#### **QUESTION THREE**

	Name and describe FIVE main form factors to motherboards.	(5 Marks)
a)	Name and deserve TTVE main form and	1 menotibility

- b) Name and describe FIVE processor features affect performance and compatibility (5 Marks) with motherboards.
- 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 (6 Marks) system
- 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
- Ohms ii.
- iii. Volts
- Watts iv.
- Continuity v.

#### **QUESTION FIVE**

a) briefly describe the following components found in a computer's motherboard (4 Marks)

- Resistor i.
- Capacitor ii.
- Diode iii.
- Transistor iv.

d) Briefly explain the following diagnostic tools included as part of the operating system (2 Marks each)

- **BIOS POST** i.
- DEFRAG.EXE ii.
- MSD.EXE iii.
- SCANDISK.EXE iv.
- SYSEDIT.EXE v.
- e) Describe the protocol that is used to automatically set up the IP address configuration (1 Mark) of network PC