



Strathmore
UNIVERSITY

**SCHOOL OF COMPUTING AND ENGINEERING SCIENCES (SCES)
BACHELOR OF BUSINESS INFORMATION TECHNOLOGY (BBIT)
END OF SEMESTER EXAMINATION
BBT1101 IT FUNDAMENTALS**

DATE: 18th **October 2023**

Time: **2 Hours**

Instructions

1. This examination consists of **FIVE** questions.
2. Answer **Question ONE (COMPULSORY)** and any other **TWO** questions.

Question 1 (30 Marks)

- a. Computers are divided into three categories as per the data they process, briefly explain the different categories while giving examples of each type of computers. **(6 Marks)**
- b. Giving examples describe the two types of software's that you have learned in class. **(4 Marks)**
- c. List three categories of network devices and give an example of a device that operates at that layer. **(3 Marks)**
- d. With the working from home most companies have resulted to buying their employees bundles. As the Network Administrator state two ways you would use to ensure that the bundles are not misused by the employees to watch movies and access other websites that are not work related. **(4 Marks)**
- e. List and explain the core functions of an operating system. **(4 Marks)**
- f. You have been consulted by your organisation again to help in buying a printer. Give a list of five things that you would emphasize on. **(5 Marks)**
- g. If you were to increase the functionality of your computer or adding controllers kindly state four adapter cards of your liking that you would add to your computer. **(2 Marks)**
- h. Describe three major components of a computer and state two factors for each that you would consider when buying the components. **(6 Marks)**

Question 2 (15 Marks)

- a. Describe and explain four types of power fluctuations that can course data loss or hardware failure. **(8 marks)**
- b. Giving examples differentiate between a type one and a type two hypervisor. **(4 Marks)**
- c. What is the difference between cloud computing and virtualization? **(3 Marks)**

Question 3 (15 Marks)

- a. Explain the difference between the following.
 - i. Dynamic Host Configuration protocol and Domain Naming System. **(2 Marks)**
 - ii. Information Technology and Information Systems. **(2 Marks)**
- b. With the use of an example explain how you would resolve a pc problem while implementing the six steps of troubleshooting. **(7 Marks)**
- c. Along with Power on self-test (POST) what else does BIOS help identify? **(4 Marks)**

Question 4 (15 Marks)

- a. Briefly state and describe four types of cables/connectors that you will find being used with devices. **(8 marks)**
- b. A network service is a capability that helps facilitate a network operation, its typically provided by client server relationship. List and explain three types of network service examples and the server that provides the service. **(6 Marks)**
- c. What is social engineering. **(1 Mark)**

Question 5 (15 Marks)

- a. You have been consulted by your organisation again to help in buying a printer. Give a list of five things that you would emphasize on. **(5 Marks)**
- b. Cybercriminals often use social engineering techniques to deceive. Kindly explain four types of social engineering techniques used by criminals. **(8 Marks)**
- c. Explain the difference between a Domain and a Workgroup. **(2 Marks)**