



**SCHOOL OF HUMANITIES AND SOCIAL SCIENCES**

**BIS/BAC/BDP**

**END OF SEMESTER EXAMINATION  
BBT 1101: FUNDAMENTALS OF IT**

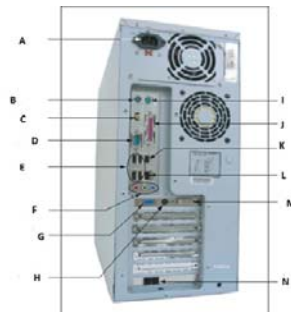
DATE: 26<sup>th</sup> July 2023

Time: 10:30-12:30

**Instructions**

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

Q1. a) Label the following parts and indicate their functions A, B, C, D, E, and F (**6 marks**)



- b) Explain the following computer security terms and how they occur (**4 marks**)
    - i) Viruses
    - ii) Worms
    - iii) Spyware/Adware
    - iv) Trojans
  - c) Explain what is an Antivirus? (**2 marks**)
  - d) With the aid of a diagram, describe a Mesh network topology. (**4 marks**)
  - e) With the help of a sketch explain what a computer Network is? (**4 marks**)
  - f) Outline the **THREE** major methods used for collecting data (**6 marks**)
  - g) Using a diagram explain the main computer hardware components of a computer (**4 marks**)
- Q2.
- i) Differentiate between Interactive Processing and Real time processing and where each is applied (**6 marks**)
  - ii) what is the other name for Interactive processing? (**1 marks**)
  - iii) When selecting software what are the **SIX** major criteria that one would consider

- iv) Outline the advantage and disadvantage of a Batch processing system **(6 marks)**  
**(2 marks)**
- Q3. a) Compare the Client Server Network and a Peer-to-Peer Network **(6 marks)**
- b) Explain the following terminologies and Acronym in computer Networks **(6 marks)**
- i) MAN
  - ii) Hosts
  - iii) WAN
  - iv) Peripherals
  - v) Network Device
  - vi) Network Media
- c) With the help of a sketch, explain what Ring topology is **(3 mark)**
- Q4. a) Differentiate between Data Security and Data privacy **(2 marks)**
- b) List and explain the TEN major moral and social issues of the Internet **(10 marks)**
- c) Outline the difference between an Intrusion Detection System and an Intrusion Prevention System **(3 marks)**
- Q5. a) Explain what E-Commerce is? **(2 marks)**
- b) List and explain the FIVE main features of an E-Commerce System **(5 marks)**
- c) Explain the FOUR main challenges posed by emerging trends in ICT **(8 marks)**