



THE COPPERBELT UNIVERSITY
DIRECTORATE OF DISTANCE EDUCATION AND OPEN LEARNING

NOVEMBER, 2022–SESSIONAL EXAMINATIONS

**BS240/HRM/BEC/BF/BSP 240 – DATA PROCESSING AND BUSINESS INFORMATION
SYSTEMS**

TIME ALLOWED: THREE HOURS

INSTRUCTIONS :

- **Maximum Marks Available – 100**
- **This paper has SIX(6) Questions**
- **Answer Any FIVE(5) Questions**
- **All Questions Carry Equal Marks (20 marks)**

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QUESTION ONE

- a) State and briefly discuss the four (4) EXAMPLES of information systems as discussed in class. **[8 marks]**
- b) State the information characteristics at the strategic and operation levels of management. **[6 marks]**
- c) As a network engineer, you are given a choice of using the following to design and implement a Local Area network, which one would use and why?. **[6 marks]**
 - i) Router
 - ii) Bridge
 - iii) Switch

QUESTION TWO

- a) Briefly discuss ways in which data can be transmitted over a telephone line. **[8 marks]**
- b) Briefly discuss the following topologies **[6 marks]**
 - i) Star
 - ii) Ring and
 - iii) Mesh
- c) State the stages and associated activities of a decision making model. **[6 marks]**

QUESTION THREE

- a) What is a business information system and hence or otherwise briefly discuss why an organization using a computer based business information system will have a competitive advantage. **[8 marks]**
- b) Distinguish between Peer to Peer Networks and Client Server Networks. **[6 marks]**
- c) Sketch and clearly label the generic model of an information system and describe the components. **[6 marks]**

QUESTION FOUR

- a) Briefly discuss the following e-Commerce Applications. **[6 marks]**
 - i) Supply chain management
 - ii) Video on demand
 - iii) Remote banking
 - iv) Home shopping
- a) State and briefly describe the three Classes of application controls in computer based information systems. **[6 marks]**
- b) State and describe four (4) ways of structuring a business. **[8 marks]**

QUESTION FIVE

- a) State and briefly describe four (4) available tools/technologies for computer based information system control and security. **[8 marks]**
- b) Forces behind E-Commerce include Digitalization & Connectivity, Internet Explosion, and New Types of Intermediaries and Customization and Customerization. Other than the above forces, briefly discuss at least four (4) other forces behind E-Commerce. **[6 marks]**
- c) Topologies can be either physical or logical and the mesh topology is the simplest logical topology in terms of data flow, but it is the most complex in terms of physical design. Discuss this statement. **[6 marks]**

QUESTION SIX

- a) Define the following Organisational Structure concepts. **[6 Marks]**
 - i) Organizational chart ii) Line positions iii) Staff Positions iv) Hierarchy of authority
- b) Direct selling via the Internet bypassed existing intermediaries. “Brick and mortar” firms became “click and mortar” companies. As a result, some “click-only” companies have failed. Briefly discuss your understanding of this statement. **[6 marks]**
- c) State and describe four (4) security controls based on the taxonomy of what the control does. **[8 marks]**.

.....**ALL THE BEST**.....