THE COPPERBELT UNIVERSITY

DIRECTORATE OF DISTANCE EDUCATION AND OPEN LEARNING

JULY, 2022–SUP EXAMINATIONS

BS240/BSP 241 – 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 system 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]**

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) Define a BIT as a measurement of storage capacity in computing and hence or otherwise find the total number of characters a 32 GB flash disk would accommodate. **[6 marks]**

QUESTION FOUR

a) What is a database and hence or otherwise state and describe four principle features of a Database Management System package **[6 marks]**

b) State and briefly describe the two categories of application software. **[6 marks]**

c) State and describe four (4) ways of structuring a business. **[8 marks]**

QUESTION FIVE

a) State and briefly describe four main elements of an Enterprise System. **[8 marks]**

b) State and describe four advantages of computer processing. **[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) What is an accounting software and hence or otherwise state and describe 4 non-core modules of an accounting package as discussed in class. **[8 marks]**

b) Sketch and clearly label the generic model of an information system and describe the components. **[6 marks]**

c) Briefly discuss the following limitations of computer based systems. **[6 marks]**

    i)   Improvisation/Flexibility   ii)   Intuition   iii)   Innovation

    iv)   Qualitative information

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