



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF COMMERCE, HUMAN SCIENCES AND EDUCATION

DEPARTMENT OF GOVERNANCE & MANAGEMENT SCIENCES

QUALIFICATION : BACHELOR OF BUSINESS AND INFORMATION ADMINISTRATION	
QUALIFICATION CODE: 07BBIA	LEVEL: 7
COURSE CODE: BIS721S	COURSE NAME: BUSINESS INFORMATION SYSTEMS 3
SESSION: JANUARY 2025	PAPER: THEORY (PAPER 2)
DURATION: 2 HOURS	MARKS: 100

2nd OPPORTUNITY EXAMINATION QUESTION PAPER	
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INSTRUCTIONS
1. Answer ALL the questions. 2. Read all the questions carefully before answering. 3. Number the answers clearly

THIS QUESTION PAPER CONSISTS OF 8 PAGES (Including this front page)

Answer the following multiple-choice questions. Only write down the question number and the correct answer. E.g. 1.1 C

Section A: Multiple choice questions

- 1.1 An arrangement wherein many PCs exchange files and have access to printers and other devices without the need for a separate server computer or server software. [1]
- A Local area network
 - B A peer-to-peer network
 - C Wide area network
 - D Private area network
- 1.2 A distributed application architecture with clients acting as service requesters and servers acting as resource or service providers: [1]
- A Client-Server Network
 - B Router
 - C Software
 - D Hardware
- 1.3 This is a reference to a computer network's architecture: [1]
- A Network topology
 - B Computing system
 - C Information system
 - D Router
- 1.4 It is in charge of determining the proper location for data packets traveling across the Internet: [1]
- A Hardware
 - B Motherboard
 - C Software
 - D Internet Protocol (IP)

- 1.5 An organised method for developing and managing an information technology system: [1]
- A Intranet
 - B System Development Lifecycle (SDLC)
 - C Wide area network
 - D Private area network
- 1.6 The oldest method in the Waterfall methodology is: [1]
- A Network architecture
 - B Networking
 - C SDLC
 - D Hardware
- 1.7 Using this kind of prototyping approach, the prototype is improved following each user assessment until all requirements are met: [1]
- A Evolutionary prototyping
 - B Rapid throwaway prototyping
 - C Client/server architecture
 - D Prototyping
- 1.8 This is significant because it addresses the development's risk appropriately: [1]
- A Wi-Fi adapters
 - B Peer-to-peer network
 - C Networking
 - D The Spiral model
- 1.9 This methodology is similar to the spiral model in that it involves the creation and testing of a prototype, gathering user feedback, and repeating the process of product refinement within a set time frame. [1]
- A Digital signals
 - B Scrum
 - C Media
 - D Internet Protocol (IP)

1.10 It gathers, organises, preserves, examines, and distributes data with the following intent: [1]

- A Waterfall methodology
- B An information system
- C V-shape methodology
- D Rapid throwaway prototyping

[10 marks]

Section B: Structured questions

[90 Marks]

Answer each of the following questions:

Questions 1

A multimedia production company called Creative Media is growing. Jordan, the IT manager, is in charge of setting up a productive network infrastructure to meet the demands of the business. Jordan needs to comprehend the many kinds of networks, including LAN, WAN, MAN, and Enterprise Network, in order to accomplish this.

Describe the differences between the MAN, WAN, LAN, and enterprise networks. **[10]**

Question 2

Bright Ideas Marketing Agency, a mid-sized company focusing in digital marketing, is examining its network architecture. Lisa, the IT director, evaluates how the organisation uses a client-server architecture and gets ready to defend its suitability for their requirements.

What type of network architecture does (BIMA) utilises, and why is this the best option? Please provide five supporting arguments. **[10]**

Question 3

While having coffee at a neighborhood cafe, Jammie, one of Alex's friends, express confusion about how computers connect in networks. With his IT background, Alex decides to provide a basic explanation of network topology.

Identify and describe five ways you might introduce the concept of network topology to a friend who is unfamiliar with it. **[10]**

Question 4

An expanding retail company called RetailCo has been having issues with its antiquated inventory management system. Sarah, the CEO, calls a meeting of stakeholders and the IT staff to talk about the necessity of system development. The team presents the five main factors driving the creation of a new inventory system at the meeting.

Outline five and discuss five reasons that motivate system development? **[10]**

Question 5

The mid-sized IT company TechSolutions intends to expand its operations by improving its networking infrastructure. Emma, the CTO, says that system development is a component of networking infrastructure during a team meeting. The group discusses and offers arguments for the veracity of this claim.

System development is part of networking infrastructure. True or False? Provide five justifications for your answer? **[10]**

Question 6

A company called Precision Manufacturing, which makes specialized parts for a range of sectors, is evaluating its operational information systems in an effort to increase production and efficiency. To determine and go over the salient features of these systems from an operational perspective, Raj, the operations manager, calls a team meeting.

Identify and discuss five characteristics of information systems at the operational level of an organisation? **[10]**

Question 7

The major retail chain SmartShop is having trouble with sales forecasting and inventory management. The management team chooses to put in place a Decision Support System (DSS) in order to improve its decision-making abilities. Lisa, the IT manager, is entrusted with summarizing the DSS's essential elements for the executive team to hear.

Outline five and elaborate on the components of a decision support system (DSS)? **[10]**

Question 8

An interactive computer-based system known as a GDSS is used to help decision makers solve unstructured problems when they are working in groups, either in the same area or in various locations.

Elaborate on this definition and explain how GDSS operates. **[10]**

Question 9

A mid-sized financial services company called FinancePro is evaluating the functions of its information systems at various organizational levels in an effort to boost productivity and decision-making. Rachel, the CIO, organizes a workshop with department heads to go over how different layers of the organization's information systems operate.

State and discuss five roles of an information system at different organisational levels? **[10]**

[Section B Total Marks: 90]

End of examination

TOTAL: 100
