



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF COMMERCE, HUMAN SCIENCES AND EDUCATION

DEPARTMENT OF GOVERNANCE AND MANAGEMENT SCIENCES

QUALIFICATION: BACHELOR OF BUSINESS AND INFORMATION ADMINISTRATION	
QUALIFICATION CODE: 07BBIA	LEVEL: 5
COURSE CODE: BIS521S	COURSE NAME: BUSINESS INFORMATION SYSTEMS 1B
SESSION: NOVEMBER 2024	PAPER: THEORETICAL PAPER
DURATION: 2 HOURS	MARKS: 100

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER(S)	Ms Ester Vaino
MODERATOR:	Mrs Petrina Louw

INSTRUCTIONS
<ol style="list-style-type: none">1. You have to answer ALL the questions.2. Read questions carefully before answering.3. Please number your answers clearly.4. Make sure your student number appears on the answering script.

PERMISSIBLE MATERIALS

1. Pen, pencil, ruler and eraser

THIS QUESTION PAPER CONSISTS OF 5 PAGES (Including this front page)

SECTION 1

[40 Marks]

QUESTION 1: Multiple Choice

[10 Marks]

Identify the letter of the choice that best completes the statement or answers the question.

- 1.1 In Operating Systems, what does "Multitasking" refer to?
- (A) Running multiple operating systems on one computer
 - (B) Running multiple programs simultaneously
 - (C) Installing multiple applications
 - (D) Switching between users on one machine
- 1.2 Which of the following is a Digital Storage Device?
- (A) RAM
 - (B) Hard Drive
 - (C) CPU
 - (D) ROM
- 1.3 Which of the following is an example of an Input Device?
- (A) Monitor
 - (B) Printer
 - (C) Keyboard
 - (D) Speaker
- 1.4 What is the primary function of an Output Device?
- (A) To process data
 - (B) To store data
 - (C) To display or communicate results to the user
 - (D) To input data into the computer
- 1.5 What is the purpose of Encryption in Digital Security?
- (A) To prevent malware attacks
 - (B) To convert data into a secure format
 - (C) To store data
 - (D) To detect security breaches
- 1.6 Which of the following Storage technologies uses flash memory?
- (A) Hard Disk Drive (HDD)
 - (B) Solid-State Drive (SSD)
 - (C) CD-ROM
 - (D) Magnetic Tape

- 1.7 Which of the following is not the function of the Operating System?
- (A) Process Management
 - (B) Memory Management
 - (C) Device Management
 - (D) Clock Management
- 1.8 Which Operating System is widely known for its open-source nature?
- (A) Windows
 - (B) macOS
 - (C) Linux
 - (D) iOS
- 1.9 Phishing attacks in Digital Security primarily aim to:
- (A) Damage hardware
 - (B) Steal sensitive information
 - (C) Slow down the computer
 - (D) Encrypt files for ransom
- 1.10 What does the term "booting" refer to in an Operating Systems?
- (A) Running a program
 - (B) Starting up the computer and loading the Operating System
 - (C) Shutting down the system
 - (D) Installing an application

QUESTION 2: True/False

[5 Marks]

Read the statements below and state whether they are true or false.

- 2.1 Operating systems are responsible for managing hardware and software resources on a computer. (1)
- 2.2 RAM is a type of long-term digital storage used to save files permanently. (1)
- 2.3 Encryption is a process used to protect data by converting it into a readable format for unauthorized users. (1)
- 2.4 Cloud storage allows data to be stored locally on the user's device. (1)
- 2.5 The file system in an operating system organizes and manages files stored on digital storage devices. (1)

QUESTION 3: Match The Following**[10 Marks]**

Match each description from Column A with the most suitable term in Column B. Write down only the letter from Column B next to the number in Column A.

COLUMN A	COLUMN B
1. Firewall	A. A device used to output printed documents from a computer.
2. High Definition multimedia Interface	B. Converts data into an unreadable format to prevent unauthorized access.
3. Encryption	C. . Internet messaging that supports voice conversations.
4. Touchscreen	D. A security method that requires two forms of verification before granting access.
5. Monitor	E. A device that acts as both an input and output, allowing users to interact directly with what is displayed.
6. Printer	F. cables are used for audio/video transmission.
7. Microphone	G. A security system that filters incoming and outgoing network traffic to protect from unauthorized access.
8. USB Flash Drive	H. A portable storage device used to transfer and store data digitally.
9. VOIP	I. A device used to input sound into a computer.
10. Two Factor Authentication	J. An output device that visually displays information processed by the computer.

QUESTION 4 – Give one Word/ Phrase for the following:**[5 Marks]**

- 4.1 refers to the time it takes to turn a pixel on, from black to white, or off, from white to black. (1)
- 4.2 consists of data as computer instructions that enable the user to interact with a computer, its hardware, or perform tasks. (1)
- 4.3 An is a teaching tool that allows computer images to be displayed onto a board using a reflective device. (1)
- 4.4 A is a small lightweight, battery-powered printer that allows a mobile user to print from a laptop, smartphone, or other mobile device while travelling. (1)
- 4.5 A is controlled by the hand, which senses motion. (1)

QUESTION 5 -- Define The Following Terms**[10 Marks]**

- 5.1 Ergonomic keyboard (2)
- 5.2 Brightness (2)
- 5.3 Instructions (2)
- 5.4 Resolution (2)
- 5.5 Hibernate (2)

SECTION B**[60 Marks]****QUESTION 6: Structured Questions****[30 Marks]****Answer each of the following questions.**

- 6.1 Identify and describe three types of digital storage media. (6)
- 6.2 Discuss the writing and reading process of Digital Storage (4)
- 6.3 Name any two (2) Advantages of Solid State Drives (SSDs) and two (2) Disadvantage of Storage State Drives. (4)
- 6.4 Name and discuss five (5) offenders of cybercrime. (10)
- 6.5 Explain the difference between storage and memory in the information technology industry. (4)
- 6.6 List any two types of storage devices (2)

QUESTION 7: Structured Questions**[20 Marks]****Answer each of the following questions.**

- 7.1 List any 2 modern-day biometric devices and give a practical example of where each device can be used. (4)
- 7.2 Briefly explain the role of a Task Manager in Operating Systems. (2)
- 7.3 What is a firewall, and how does it contribute to Digital Security? (4)
- 7.4 Tell your fellow student how to protect his/her computer from Digital Security Risks. Mention and discuss any 5 tips (10)

TOTAL: 100 MARKS