

# FIRST YEAR EXAMINATION FOR THE AWARD OF THE DIPLOMA IN CLINICAL MEDICINE AND SURGERY/SASS/SOBE THIRD SEMESTER 2022/2023 [MAY-AUGUST, 2023]

COMP 0190/COMP 0100: INTRODUCTION TO COMPUTER APPLICATIONS/SYSTEMS/FUNDAMENTALS/INFORMATION TECHNOLOGY AND NATIONAL DEVELOPMENT

STREAM: Y1S3 TIME: 2 HOURS

DAY: THURSDAY, 9:00 - 12:00 PM DATE: 27/07/2023

#### **INSTRUCTIONS**

1. Do not write anything on this question paper.

2. Answer question ONE (compulsory) and any other TWO questions in section  $^{\rm R}$ 

#### **SECTION A**

## **QUESTION ONE**

- a) Explain specific applications of Computers in Clinical Medicine or Public Administration. (8 marks)
- b) Distinguish between RAM and ROM. (2marks)
- c) Explain the role of the internet in globalization (2 marks)
- d) Information Technology has become a powerful tool for National Development. Explain. (8 marks)
- e) The ability to utilize technology to drive new ways of doing businesses is a major factor in how an organization moves forward and succeeds. Explain the following Information Technology (IT) issues that continue to present hurdles:

i.	Cybersecurity Threats.	(2marks)
ii.	Operationalizing Artificial Intelligence.	(2marks)
iii.	Data Protection and Privacy.	(2marks)
iv.	Social Media.	(2marks)

v. Creating a hybrid work environment that works for everyone. (2mks)

### **SECTION B**

## **QUESTION TWO**

- a) Define what is data backup, causes of data loss and explain reasons why it is important to backup. (8marks)
- b) State four roles of information systems to organizations. (4marks)
- c) Explain what an Operating system is and four functions of the operating system. (8 marks)

## **QUESTION THREE**

- a) A series of breakthroughs have occurred in the computing world since the 1940's. Distinguish between the following computers:
  - i. Fourth Generation and Fifth generation computers. (2marks)
  - ii. Super computers and Personal computers (2marks)
  - iii. Digital and Analog computers. (2marks)
  - iv. General and specific purpose computers (2marks)
- b) Define computer ergonomics and describe its relevance to users. (6marks)
- c) Explain Microsoft Word and PowerPoint and instances where they are used. (6marks)

# **QUESTION FOUR**

- a) Explain National Development and Four Key Aspects. (9 marks)
- b) Explain five factors you will consider when purchasing computers for the company. (5 marks)
- c) Explain your understanding of the following contemporary Information technology issues:

i. Cyberbullyingii. Hackingiii. Digital divide(2marks)(2marks)

## **QUESTION FIVE**

- a) Outline four benefits of Computer networks (4marks)
- b) Given an Excel sheet with data in the cells B1, B2, B3, B4 and B5.
  - i. In cell B6, write a function to find the sum of the five cells. [2 marks]
  - ii. In another cell B7, write a formula to find the average of the five cells. [2 marks]
- c) Explain your understanding of computer databases and explain why they are important in the modern world. (6marks)
- d) Explain What the CPU is and its Components and their functions.

(6marks)