



**NATIONAL OPEN UNIVERSITY OF NIGERIA,  
PLOT 91, CADASTRAL ZONE, UNIVERSITY VILLAGE, JABI – ABUJA  
FACULTY OF SCIENCES**

**2021\_2**<sub>45678</sub>

**Course Code: DAM364**

**Course Title: MANAGEMENT INFORMATION SYSTEM (MIS)**

**Time: 2 Hours**

**Credit: 2 Units**

**Instruction: Attempt 4 questions. Question1 is Compulsory and any other three (3) Questions**

**QUESTION ONE (25 MARKS) COMPULSORY**

- Distinguish between a Resident virus and a Non- Resident virus. **(4 Marks)**
- Briefly discuss any four (4) advantages of MIS. **(4 Marks)**
- Briefly discuss the relationship between Data, Information and Instruction. **(3 Marks)**
- Outline five (4) purposes of Information Technology. **(2 Marks)**
- Explain the ethical issues of I.T. with regard to; Predictability and Speed. **(2 Marks)**
- Explain the concepts of MUA and MTA as it relates to email processing. **(4 marks)**
- Despite the usefulness of the Internet, it still has some limitations. Outline 6 of such limitations. **(3 Marks)**
- What is Teleprocessing? **(3 Marks)**

**QUESTION TWO (15 MARKS)**

- An organization is about to embark on the use of MIS for adequate decision making, but however experiences some bottlenecks. What could be these bottlenecks? **(3 Marks)**
- Briefly write short note on “Time Sharing Mode”. **(3 Marks)**
- Briefly explain the term “Logic Bomb”. **(3 Marks)**
- What is a Computer Worm? **(2 Marks)**
- What are Gray codes? Give a table of Gray codes of 0 to 9. **(4 Marks)**

**QUESTION THREE (15 MARKS)**

- Explain “Fax” operations and state its advantages. **(5 Marks)**
- Distinguish between fields, records and files. **(3 Marks)**

- c. A National On-line seller wants to begin selling its products internationally. Explain how he can use DSS to determine if that will be a wise business decision. **(4 Marks)**
- d. Briefly discuss the Simplex Mode of Information Communication. **(3 Marks)**

#### **QUESTION FOUR (15 MARKS)**

- a. Find the Excess 3 codes equivalent of the following BCD codes
  - (i) 1001 **(2 Marks)**
  - (ii) 0111 **(2 Marks)** (show your working)
- b. Discuss any three (3) techniques that can be used to enhance Information Security. **(5 Marks)**
- c. In a single sentence each, explain the following cryptographic systems stating their year of invention, inventors and specific uses.
  - (i) Data Encryption Standard (DES) **(2 Marks)**
  - (ii) Pretty Good Privacy (PGP) **(2 Marks)**
  - (iii) Rivest, Shamir, Adleman (RSA) **(2 Marks)**

#### **QUESTION FIVE (15 MARKS)**

- a. State five functionalities each of Top Management and Middle Management Level. **(5 Marks)**
- b. As organization grows the need to develop MIS becomes inevitable. Discuss, with the aim of bringing out the advantages and disadvantages. **(3 Marks)**
- c. Distinguish between Half and Full Duplex Mode of Information Communication. Give an example each of half and full duplex mode. **(4 Marks)**
- d. Outline any four (4) basic requirements needed to connect to the internet. Explain any two. **(3 Marks)**