



**National Open University of Nigeria**  
**Plot 91, Cadastral Zone, Nnamdi Asikiwe Expressway, Jabi – Abuja**  
**Faculty of Sciences**  
**2024 1 EXAMINATION**

**COURSE CODE:** CIT463

**COURSE TITLE:** Introduction to Multimedia Technology

**CREDIT:** 3 Units

**TIME ALLOWED:** 3 Hours

**INSTRUCTION:** Question ONE (1) is compulsory and answer any other three (3)

**QUESTION 1**

1a. Explain the concepts of Star Topology in Computer Network

1a. Advantages of Star Topology

Question 1b

Write about PROTOCOL

ATM (Asynchronous transfer Mode)

[TOTAL MARK FOR QUESTION 1 = 25 MARKS]

**QUESTION 2**

2a) Enumerate any three (3) types of Digital Subscriber Line (DSL) you ever studied.

b.) Give the features of the following types of TV broadcast:

i) Digital Television

ii) Cable Television

[15 MARKS]

**QUESTION 3**

3a. What are the common ways to create or get digital images?

3b Explain the concepts of SERVER

Give a discussion on the BENEFITS AND CHALLENGES OF USING COLOUR

[15 marks]

**QUESTION 4**

4a. Definition of Multimedia

ii Highlight 12 Key examples of multimedia applications are:

4b ROUTING AND ROUTER

Ii. APPLICATION SOFTWARE

**QUESTION 5**

Discuss DIGITAL IMAGE PROCESSING

**QUESTION 6**

- Distinguish between the different types of network 5 Marks
- Describe the two types of network Architecture. 5 Marks
- State three advantages and disadvantages of the WAN, LAN & MAN Networks 5 Marks