



NATIONAL OPEN UNIVERSITY **OF NIGERIA**
14/16, Ahmadu Bello Way, Victoria Island, Lagos

SCHOOL OF SCIENCE & TECHNOLOGY

Course Code: CIT 742

Time: 3hrs

Course Title: Multimedia Technology

Course Credit Unit:3

Instruction: Answer any five (5) questions. Each question carries 14 marks

- 1a. Using examples explain the term multimedia applications
(5 Marks)
- 1b. Using examples describe five (5) components of a multimedia system
(5 Marks)
- 1c. State four (4) challenges of a multimedia system
(4 Marks)
- 2a. Briefly define colour (5 Marks)
- 2b. Define Chromatic (5 Marks)
- 2c. Describe the two basic lossy compression schemes
(2 Marks each)
- 3a. What is multimedia compression?
(5 Marks)
- 3b. List five (5) key issues that affect storage media
(5 Marks)
- 3c. List four factors that influence I/O performance
(4 Marks)
- 4a. Define Pixel (5 Marks)
- 4b. Define multimedia compression
(5 Marks)
- 4c. What factors determine the resolution of a monitor?
(2 Marks)
- 4d. What does GIF stand for?
(2 Marks)
- 5a. Define Noise (5 Marks)
- 5b. Define the following terms
 - Hypertext

- **Hypermedia**

5c. Define Authoring System

6a. State and explain the theory of Digitization
(5 Marks)

6b. Explain lossless Compression **(5 Marks)**

6c. list Four (4) typical lossless compression file format
(4 Marks)

7a. Explain and describe using mathematical expressions discrete cosine transform (7 Marks)

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