



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**91 CADASTRAL ZONE, NNAMDI AZIKWE EXPRESSWAY, JABI, ABUJA**  
**FACULTY OF SCIENCES**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**2024 1 EXAMINATION**

**COURSE CODE: CIT 735**

**COURSE TITLE: APPLICATION OF SOFTWARE DESIGN AND MULTIMEDIA**

**CREDIT: 3 Units**

**TIME ALLOWED: 3 Hours**

**INSTRUCTION: Answer Question ONE (1) and any other THREE (3) Questions.**

**Question 1**

- 1a. Identify Ten (10) multimedia data elements [5 marks]
- 1b. Mention the most distinguishing feature of non-linear classification of Multimedia and Give two (2) examples [4 marks]
- 1c. Summarize Geographical Information System (GIS) multimedia data element [4 marks]
- 1d. Briefly describe three (3) components of interactive multimedia [3 marks]
- 1e. Mention and briefly explain six (6) necessary features in multimedia systems [9 marks]

**Question 2**

- 2a. Differentiate between compact disk burning and ripping [4 marks]
- 2b. Write three (3) main functions of Advanced Streaming Format (ASF) in multimedia operations [6 marks]
- 2c. Discuss Multimedia software life cycle [5 marks]

**Question 3**

- 3a. State four (4) activities deployed in video lossless compression scheme [4 marks]
- 3b. Compare the attributes of bitmap graphics with vector graphics [4.5 marks]
- 3c. Briefly explain the cause of colour Aliasing and discuss a solution to it [7½ marks]

**Question 4**

- 4a. How is Sound Frequency different from Sound Amplitude? [6 marks]
- 4b. Discuss the primary goal of multimedia user interface [3 marks]
- 4c. Write four (4) main reasons for deploying GIF89a in animation [6 marks]

**Question 5**

- 5a. Determine the number of grey levels present in an 8-bit image [2 marks]
- 5b. Discuss the roles of 3D motion capture and Camera-based object tracking in multimedia project [4 marks]
- 5c. Identify and Discuss Three (3) Attention Based Principles of Display Design [9 marks]

**Question 6**

- 6a. What is the aim of Digital Fashion in multimedia project? [2 marks]
- 6b. How would you input handwritten text and printed image into the computer? [5 marks]
- 6c/ Discuss four (4) drivers of e-learning [8 marks]