



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**University Village, Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Abuja**  
**FACULTY OF SCIENCE**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**2022\_2 POP EXAMINATION**

**Course Code:** CIT463  
**Course Title:** Introduction to Multimedia Technology  
**Credit:** 3 units  
**Time allowed:** 3 Hours  
**Instruction:** Answer Questions **ONE (1)** and any other **THREE (3)** Questions

**QUESTIONS**

- 1a. State and discuss compression types commonly used in video compression **(4marks)**
- 1b. Discuss Multimedia compression and differentiate between its types. **(9marks)**
- 1c. State any six (6) functions of software. **(6marks)**
- 1d. Enumerate in tabular form, the functions and any four (4) components of:
  - i) System software **(3marks)**
  - ii) Programming software **(3marks)**
- 2a. The term 'Server' is a phenomenon in computing world;
  - i. Describe this term **(4marks)**
  - ii. State common ways this term is used. **(3marks)**
- 2b. Briefly Describe the basic operation of *Internet telephony system*. **(8marks)**
- 3a. Enumerate the different aspects /features of multicast communication. **(4marks)**
- 3b. Compare between Integrated Service and Differentiated Service. **(6marks)**
- 3c. State the advantages of a Differentiated Services. **(5marks)**
- 4a. Identify and highlight the use of any eight (8) components of Microsoft DirectX **(12marks)**
- 4b. Discuss Microsoft DirectX in brief. **(3marks)**
- 5a. Explain the concept of Video Conferencing **(6marks)**
- 5b. state the components required for a video conference **(5marks)**
- 5c. Identify the types of video conferencing **(4marks)**
- 6a. Itemise five (5) application areas of multicast **(5marks)**
- 6b. What is the purpose of MBONE? **(3marks)**
- 6c. State the reasons for difficulty in commercialisation of multicast routers. **(3marks)**
- 6d. How can digital image can be created? **(4marks)**