



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)**