

NATIONAL OPEN UNIVERSITY OF NIGERIA

University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja

FACULTY OF SCIENCE

DEPARTMENT OF COMPUTER SCIENCE

CIT463: Introduction to Multimedia Technology

Credit Units: 2

Instruction: Answer Question (1) (25marks) and any other three questions each carrying 15 marks

Time: 2 hours

MARKING GUIDE

- 1a) What is multimedia technology? (**2marks**)
- b) State six essential features desirable to multimedia system (**12 marks**)
- c) Give four areas in which multimedia system is applicable (**1 mark**)
- d) Compare the Client-Server architecture and Peer-to-Peer architecture (**10 marks**)
- 2a) Describe the key elements of protocol (**6 marks**)
- b) Enumerate the differences between an *analogue videotape* and a *digital video format* (**6 marks**)
- c) Identify the differences between an *analogue audio* and a *digital audio* (**3marks**)
- 3a) Explain the concept of *video conferencing* (**3 marks**)
- b) What are the components required for a *videoconferencing* system (**5 marks**)
- c) List the types of dedicated *videoconferencing* devices (**3 marks**)
- d) Briefly explain the process of creation of digital audio (**4 marks**)
- 4). Write short notes on the following topologies giving advantage(s) of each. Draw diagram where necessary.
 - a) Ring (**5 marks**)
 - b) Tree (**5 marks**)
 - c) Mesh (**5 marks**)
- 5a) Describe the characteristics of the following types of computer network:
 - i) Metropolitan Area Network (MAN) (**3 marks**)
 - ii) Wide Area Network (WAN) (**3 marks**)
 - iii) Local Area Network (LAN) (**3 marks**)
- b) What is a multimedia software? (**2 marks**)
- c) List FOUR (4) functions of multimedia software (**4 marks**)
- 6a) Describe the three major forms of multimedia hardware (**14 marks**)
- b) How is *videoconferencing* different from *videophone call* (**1 mark**)