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**)