



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**PLOT 91 CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI, ABUJA**  
**FACULTY OF SCIENCES**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**OCTOBER, 2019 EXAMINATIONS**

**COURSE CODE: CIT463**

**COURSE TITLE: INTRODUCTION TO MULTIMEDIA TECHNOLOGY**

**COURSE CREDIT: 3 UNITS**

**TIME ALLOWED: 2½ HOURS**

**INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER FOUR (4) QUESTIONS**

- 1a) What do understand by multimedia software? *(2 marks)*
- b) List FOUR (4) functions of multimedia software *(4 marks)*
- c) How is *videoconferencing* different from *videophone call* *(1 mark)*
- d) Enumerate two types of dedicated *videoconferencing* devices *(3 marks)*
- e) Identify the differences between an *analogue audio* and a *digital audio* *(3 marks)*
- f) State three challenges of using colour? *(3 marks)*
- g) Describe the types of network architecture, you have studied. *(6 marks)*
- 
- 2a) Explain the concept of *video conferencing* *(4 marks)*
- b) What are the components required for a *videoconferencing* system *(5 marks)*
- c) ATM is an attempt to meet the requirements of three different types of network traffic. Name them and give an example of each. *(3 marks)*
- 
- 3a) What do you understand by Chromatics? *(3 marks)*
- b) 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)*

4a) Briefly explain the process of creation of digital audio (**4 marks**)

b) Write short notes on the following major forms of multimedia hardware:

i) DVD (**4 marks**)

ii) USB (**4 marks**)

5a) Write short notes on the following topologies giving advantage(s) of each. Draw diagram where necessary.

i) Ring (**5 marks**)

ii) Mesh (**5 marks**)

b) Give **eight** (8) areas in which multimedia system is applicable (**2 marks**)

6a) State six (6) essential features desirable to multimedia system (**9 marks**)

b) Enumerate the benefits of using colour (**3 marks**)