



FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA  
SCHOOL OF INFORMATION AND COMMUNICATION TECHNOLOGY  
DEPARTMENT OF INFORMATION & MEDIA TECHNOLOGY

SECOND SEMESTER 2017/2018 EXAMINATION

**COURSE CODE:** IMT 521  
**COURSE TITLE:** MULTIMEDIA TECHNOLOGY & PROGRAMMING  
**CREDIT UNITS:** 2  
**TIME ALLOWED:** 2 hours  
**COURSE LECTURER(S):** I. O. ALABI  
**NUMBER OF QUESTIONS:** 4  
**NUMBER OF PAGES:** 2 (INCLUDING THIS PAGE)

**INSTRUCTIONS**

- Answer all questions
- Do **not** use red pen
- Please use a clear handwriting
- This exam is closed book, closed notes, closed laptop and closed cell phone
- Please use non-programmable calculators only



1. a. What are analog and digital media. (6 marks)  
b. State any four reasons of the better media in (a). (4 marks)  
c. What are the desirable features of multimedia encryption? (5 marks)
2. a. Describe the concept of video conference. (4 marks)  
b. What are the components required to setup video conferencing. (5 marks)  
c. Suggest situations where the use of video conferencing might be useful (6 marks)
3. i) Explain Linear and Non-linear multimedia. (2 marks). Give examples of character, audio and video encoding systems. (5 marks)  
ii) Briefly explain the following:
  - a) Data compression (2 marks)
  - b) Media encryption (2 marks)
  - c) Voice recognition (2 marks)
  - d) Media streaming (2 marks)
4. i) What is encoding? (2 marks)  
ii) Write on Unicode and Unicode Consortium? (6 marks)  
iii) What are the most common Unicode encoding systems? (2 marks)  
iv) Write short notes on how technology has impacted on digital rights management. (5 marks)