



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

SECOND SEMESTER 2016/2017 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. Explain 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. As an IT expert, suggest **four** examples, with cogent *reason(s)*, of situations where the use of video conference device instead of other conventional conference means is a perfect solution. (10 marks)
b. What are the basic components of video conference devices. (5 marks)
3. i) What is encoding? Give examples of character, audio and video encoding systems. (3 marks)
ii) What are the advantages of digital recorded media? (2 marks)
iii) Explain:
 - a) Data compression (2 marks)
 - b) Real-Time Audio (2 marks)
 - c) Voice recognition (2 marks)
 - d) Media streaming (2 marks)
iv) Give any three examples each of *lossy* and *lossless* compression formats. (2 marks)
4. i) ii) Explain Linear and Non-linear multimedia. (4 marks)
ii) Explain Source and Channel coding. (5 marks)
iii) What is a Codec? (2 marks)
iv) State any **five** applications of multimedia system.? (4 marks)