

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

SECOND SEMESTER 2014/2015 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. i) What is Character encoding? (3 marks)
 - ii) What are the most common encoding system? (3 marks)
 - iii) What is meant by Multimedia technology? (3 marks)
 - iv) Explain Linear and Non-linear multimedia. (3 marks)
 - v) What are the distribution channels of multimedia contents.(3 marks)
- 2 i) Distinguish between digital and analogue Recording. (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)
- 3. i) Explain Video conference and the components of video conference technology. (4 marks)
 - ii) What are the desirable features of multimedia encryption? (6 marks)
 - iii) Explain Unicode and Unicode Consortium? (3 marks)
 - iv) What are the most common Unicode encoding systems? (2 marks)
- 4. i) What is meant by multimedia Digital coding? (4 marks)
 - ii) Explain Source and Channel coding. (5 marks)
 - iii) What is a Codec? (2 marks)
 - iv) What are the performance parameters of digital coding? (4 marks)