



NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
MARCH/APRIL 2016 EXAMINATION

SCHOOL OF SCIENCE AND TECHNOLOGY

COURSE CODE: CIT742
COURSE TITLE: Multimedia Technology (3 Credits)

Answer any five (5) questions in 3.00 Hours. Each question carries 14 marks.

1(a) Explain the term “MULTIMEDIA” (4 marks)

1(b) What is the full meaning of the following acronyms?

- (i) JPEG
- (ii) DCT
- (iii) RTF
- (iv) DVD
- (v) HSB
- (vi) ADPCM
- (vii) GIF
- (viii) PNG
- (ix) TIFF
- (x) MPEG

(10 marks)

2(a) Explain any three components of Multimedia (6 marks)

2(b) Mention any three (3) characteristics of Multimedia? (3 marks)

2(c) List five components of a Multimedia (5 marks)

3(a) Explain the term “Lossless Compression” (6 marks)

3(b) What is Redundant Array of Inexpensive Disks (RAID)? (4 marks)

3(c) Outline two (2) benefits and two (2) challenges of Colour (4 marks)

4(a) Explain the theory of Digitization (5 marks)

4(b) Identify three (3) main sources of sound (3 marks)

4(c) List and explain three (3) system Independent Format (6 marks)

5(a) Explain the following:

- (i) Pixel
- (ii) Monitor Resolution
- (iii) Analog and Digital Signals

(3 marks each)

5(b) Outline five (5) Capture devices **(5 marks)**

6(a) What do you understand by Transform Coding?**(6 marks)**

6(b) List any four (4) examples of a Multimedia. **(4 marks)**

6(c) List three (4) factors that determine monitors' resolution? **(4 marks)**

7(a).Describe Discrete Fourier Transform **(5 marks)**

7(b) List three (3) elements of Multimedia **(3 marks)**

7(c) Explain any three (3) guidelines for using colour **(6 marks)**