NATIONAL OPEN UNIVERSITY OF NIGERIA
University Village, Plot 91, Cadastral Zone,
Nnamdi Azikiwe Expressway, Jabi, Abuja
FACULTY OF SCIENCES

2023_1 POP EXAMINATION.

Course Code:	CIT742
Course Title:	Multimedia Technology
Credit Unit:	3
Time Allowed:	2 ½ hours
Instruction:	Answer Question 1 and any other three (3) questions

(25 marks)

Q1 a. Explain the following terms: (9 marks)
     (i) Synchronization
     (ii) Digital signal
     (iii) Analog signal

    b. List three factors that can influence input/output (I/O) performance   (6 marks)
    c. Discuss five (5) desirable features of multimedia systems   (10 marks)

(15 marks)

Q2 a. List two sources of text and static data   (2 marks)
    b. Discuss two key components of the RAID System   (4 marks)
    c. Explain and give examples of three components of a multimedia system   (6 marks)
    d. List three main authoring paradigms   (3 marks)

(15 marks)

Q3 a. Describe the concept called transform coding   (3 marks)
    b. Differentiate between lossless and lossy video compression   (6 marks)
    c. Mention two examples of streamed audio   (2 marks)
    d. Describe the relationship between iconic/flow control and the frame   (4 marks)
       authoring paradigm

(15 marks)

Q4 a. Explain the term chromatics   (3 marks)
    b. Outline three output devices for multimedia systems   (6 marks)
    c. Explain the factor that determines a monitor's resolution   (2 marks)
    d. Briefly describe two image formats   (4 marks)

(15 marks)

Q5 a. Explain with the aid of a diagram the concept of light spectra   (5 marks)
    b. List three common image-coding standards   (3 marks)
    c. What is a raw video?   (2 marks)
    d. Explain two key issues multimedia systems need to deal with.   (3 marks)
    e. State two image enhancing operations.   (2 marks)

(15 marks)

Q6. a. Describe three key issues that can potentially affect storage media   (6 marks)
    b. Outline three benefits and three challenges of colour in multimedia   (9 marks)
       applications