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NATIONAL OPEN UNIVERSITY OF NIGERIA PLOT 91, CADASTRAL ZONE, NNAMDI ASIKIWE EXPRESSWAY, JABI – ABUJA FACULTY OF SCIENCES

2021 EXAMINATION

COURSE CODE: CIT742 COURSE TITLE: Multimedia Technology CREDIT: 3 Units TIME ALLOWED: 2.5 Hours INSTRUCTION: Answer Question ONE and any other four (4) Questions

Question One

- 1a i. How can Hypermedia be *experienced*? [1 mark]
- 1a. ii. Explain, in clear terms, Hypertext [1 mark]
- 1a. iii. State TWO (2)things that *Multimedia System* is required for. [1 mark]
- 1b. i. Enumerate the FOUR characteristics of a Multimedia System. [2 marks]
- 1b.ii.List some standard noise forms associated with Image Digital Signal
Processing Systems. [1 mark]
- 1b. iii. What is the idea of Histogram Equalization? [1 mark]
- 1c. i. Describe Briefly the Histogram of an Image. [3 marks]
- 1c. ii. Describe briefly the history of multimedia. [3 marks]
- 1d. i. Define *Video*. [2 marks]
- 1d. ii. Briefly explain *Contrast Stretching*. [1 mark]
- 1e. i. Explain briefly Image Restoration. [2 marks]
- 1e. ii. Write short note on Multimedia [4 marks]

Question Two

- 2a. i. When can someone be said to be *experiencing Multimedia*? [2 marks]
- 2a. ii. Define *noise* in image digital processing systems. [3 marks]
- 2b. i. Describe the *process of* Image Analysis and give ONE common application of the Histogram **[3 marks]**
- 2b. ii. Evaluate Two-dimensional Discrete Fourier Transform (DFT) [4 marks]

Question THREE

3a.	i.	Explain comprehensively Multimedia Application. [2 marks]
3a.	ii.	How did the German Language Society, Gesellschaft fur Deutsche

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Recognize the word's (Multimedia's) significance and ubiquitousness in 1990s?

[2 marks]

3b. i. What are the key issues that Multimedia System need to deal with?

[2 marks]

3b. ii. Write short notes on Hypermedia [6 marks]

Question four

4a.	i.	When is Interactive Multimedia said to become Hypermedia? [1 mark]

- 4a. ii. Describe JPEG Encoding? [4 marks]
- 4b. i. Explain the two basic lossy comprehension schemes? [4 marks]
- 4b. ii. Describe exclusively, Multimedia Compression. [3 marks]

Question Five

5a.	i.	State the major difference between <i>multimedia</i> and <i>hypermedia</i> [2 marks]			
5a.	ii.	Write down five desirable features for a Multimedia System [5 marks]			
5b.	i.	Describe in details the techniques for reducing or eliminating Noise in			
		Image Processing [3 marks]			
5b.	ii.	State the TWO operators that are closely connected to the Histogram.			
		[2 marks]			
Question six					
ба.	i.	Apply any four LOSSY methods that can be applied to audio compression.			
		[4 marks]			
ба.	ii.	Mention FOUR Typical Lossless Comprehension "Graphics" File Formats.			
		[2 marks]			

- 6b. i. Discuss the term *Transform Coding*. [2 marks]
- 6b. ii. Evaluate the methods that are related to Human Hearing and Voice [4 marks]