

National Open University of Nigeria 14/16 Ahmadu Bello Way, Victoria Island, Lagos. School of Science and Technology

Credit unit: 3 Time:		e: CIT 891 a: Advanced Multimedia Technologies b: 3 credit units condition 2 ½ Hours condition 14 Answer any four (5) questions. Each question carries 14 marks	S.
1.	a. (2mar b. c. arks)	Define the term multimedia ks) List two properties of the two dimensional Fourier transform whi of particular use for image processing (2marks) Using a well labelled diagram discuss the decoder design	ich are (10
2. Marks	a.) b. c.	What is a multimedia Workstation MPEG has standardized the certain compression formats and standards. Discuss any two. (6 marks) Compression formats and standards. (6 marks)	arks)
3. marks marks	c.	What is image processing List the tasks involved in image processing JPEG defines the following four modes of Operation. Discuss.	omputer (2 (5
4.	a. (2 Mai b. (4 ma c. (8 ma	With the use of relevant diagrams briefly discuss "sampling rks) Write short notes on any two of the following	
5.	a.	List for components of multimedia	(4

List any six feature are desirable for a Multimedia System

(4

Marks)

Marks)

b.

(6 marks)

Briefly discuss Digital Video

6. State the Nyquist s theorem (2 a. Marks) b. MPEG defines a hierarchy of layer s within a video sequence. Starting from the top level enumerate/discuss (9 marks) State two advantages and one disadvantages of data compression (3 marks) What is the term noise In image digital signal processing systems 7. a. (1 mark) List three (3) standard noise forms in multimedia (3 b. marks) List and explain three main properties of a colour source that the eye makes (6 marks) (4 Write short notes on any two marks)

RGB YIQ HSV