

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code: OECCS701B Multimedia Systems

Time Allotted: 3 Hours

Full Marks :70

The Figures In the margin indicate full marks. Candidate are required to give their answers in their own words as far as practicable

-	Group-A (Very Short Answer Type Question)	
/ Answ	er any ten of the following:	[1 x 10 = 10]
,	A type of optical media?	
	Tag is used to create a numbered list in HTML?	
(84)	In Audio & Video compression, the term RGB means	
(IV)	State characteristic of a multimedia system?	
(V)	Which Image files are lossy format?	
(VI)	DVD stands for	
(V [†])	The defines the syntax of markup constructs and include additional definitions such as character references.	rentity
(VIII)	PDFA format is	
(IX)	What are multimedia software?	
(X)	A smaller version of an image is called a	
(XI)	refers to information types synthesized by the computers.	
(XII)	In Video Compression, an independent frame that is not related to any other frame is called	
	Group-B (Short Answer Type Question)	
	Answer any three of the following	[5x3=15]
Brie	fly explain JPEG image compression with block diagram.	[5]
	ne spatial and temporal redundancy? What is QoS?	[5]
Writ	e the components of multimedia.	[5]
Wh	at is Text? What is rich text? What is glyph in Unicode standard?	[5]
Writ	e a short note about Video Conferencing.	[5]
- 9		
	Group-C (Long Answer Type Question) Answer any three of the following	[15 x 3 = 45]
	Answer any timee of the following	[13.3=-5]
(a)	What is the purpose of synchronization? Describe the synchronization accuracy specification factors.	[7]
	Differentiate between CAV for hard disks and CLV for CDs. Describe Mode 1 and Mode 2 of CD-ROM.	[5]
	What do you mean by CCD? Why is it used?	[3]
j.,	이후사 위 택위 중 회사 가는 사람들이 되는 사람들이 되었다.	
	What are lossy and lossless compression techniques? Give example of each kind.	[4]
	Briefly explain JPEG image compression with block diagram.	[6]
(F) (5)	Write the display sequence and transmission sequence for video frames. Why are they different?	[5]
Way.	What is sampling? Why is it required in multimedia? Define quantization error with a simple example.	[5]
	State the Nyquist sampling theorem. A communication channel can carry signal with frequency from 20 Hz to 20 KHz. Determine the sampling frequency.	[5]
	What are different image file formats?	[5]
	Why synchronization is necessary in multimedia? Define spatial and temporal redundancy?	[5]
N.	What is CAV and CLV in case of spinning disk media?	_
(b)	Series 243, mild oct at the case of shifting disk theory.	[3]
(b) \	Describe briefly the display system technique and raster scan method.	[5] [5]

(b) What is K-d tree? Explain the structure of 2-dimension K-d tree by using following points:	(7)
(b) What is K-d teer Explain to (4, 0), (4, 0), (7, 9), (2, 9)]	[3]
(c) Define QBIC.	

*** END OF PAPER ***

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