(3 Hours) (Total I		Marks : 80)	
(2)	 Question No.1 is compulsory. Attempt any three questions from the remaining five questions. Draw neat diagrams wherever necessary. 		
1. Differentiate:		[20]	
a)	Multimedia Database and Normal Database.		
b)	Printer and Scanner		
c)	RTF and TIFF File formats.		
d)	Types of video signals.		
2. (a) Gi	ve the silent features of different types of Images. What will be the size of digital		
im	hage if image specification is 800×600 pixels with 8-bit gray level?	[10]	
(b) Di	scuss the characteristics of sound wave. Illustrate the steps to digitize audio data.	[10]	
3. (a) W	hat are the different types of redundancies present in an image? For the phrase		
"N	Aississippi river", with each letter will taking 8 bits. Apply Huffman Coding		
Co	ompression technique and find reduction achieved.	[10]	
(b) Di	fferentiate the different audio compression techniques. Justify DPCM performs		
be	tter compression then PCM with suitable example.	[10]	
4. (a) Ex	plain MPEG Video Compression Technique.	[10]	
(b) W	hy quality of service is important in network communication for multimedia data.		
Di	scuss the protocols to achieve the quality.	[10]	
5. (a) Ch	nart the navigation through an application for editing a hypermedia mail message.		
W	hat menu items are required for this application?	[10]	
(b) Di	scuss the importance of steganography. Explain the working of LSB with an		
ex	ample.	[10]	
6. Write	Short Note on Any Two:	[20]	
(a)	JPEG Compression		
b)	RTP		
c)	Digital Signature		

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