С		Reg. No. :											
		Question Par	her	Co	de•	594	110	٦					
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Dur	ation: Three hours	Answer ALI	_ Q1	uesti	ons	N	/laxii	num	100) Ma	rks		
		PART A - (5 x	1 =	= 5 N	1ark	s)							
1.	A video consists of a s	sequence of										CO	1- R
	(a) Frames	(b) Signals	(c	e) Pa	cket	S			((d) S	lots		
2.	Which of the following is an example of a lossy image format? CO2- I								2- R				
	(a) TIFF using LZW compression			(b) JPEG of medium quality									
	(c) GIF without dithering			(d) All of the above									
3.	Most common compression technique that is used to create CD-quality CO3- R audio based on perceptual encoding technique is called												
	(a) Perceptual Encoding			(b) MPEG									
	(c) JPEG			(d) Predictive Encoding									
4.	H.323 uses G.71 or G.	.723.1 for										CO	1- R
	(a) Compression	(b) Communication	(c	e) Co	ontro	lling	5			(d) C	onfe	erenc	ing
5.	Real time streaming is	most useful for								CO5	- R		
	(a) Long video clips			(b) Short video clips									
	(c) Extremely short an	(d) None of the above											
		PART – B (5 x	3=	15 N	Mark	(s)							
6.	Write the skill set reprogrammer.	Write the skill set requirements of multimedia designer and multimedia CO1- App programmer.											
7.	Summarize the signif	icance and application	ons	of (GIF	and	TIFI	F im	age	file	CO	2- U	

formats.

8.	Diff	Differentiate MPEG-1 and MPEG-2 standards.		CO3- U						
9.	Just	ify why QOS is measured in VOIP.	CO4- U							
10.	Out	line the features of best effort service.	CO5- U							
PART – C (5 x 16= 80Marks)										
11.	(a)	Explain why most data networks operate in a packet mode. Hence explain why services involving audio and video are supported.	CO1- U	(16)						
Or										
	(b)	List out the various multimedia components and explain their features and applications.	CO1- U	(16)						
12.	(a)	The following character string is to be transmitted using Huffman coding A B A C A D A B A C A D A B A C A B A B. Compute and draw the Huffman code tree.	CO2- App	(16)						
Or										
	(b)	(i) Describe the step by step process of JPEG Encoding.	CO2- U	(10)						
		(ii) Write the differences between lossless and lossy compression.	CO2- U	(6)						
13.	(a)	Analyze the H.261 video encoder and infer the relation to the macroblock and frame formats.	CO3- Ana	(16)						
		Or								
	(b)	Describe the Differential Pulse Code modulation encoder and decoder with schematic diagram.	CO3- U	(16)						
14.	(a)	Explain the H.323 network architecture along with protocol stack	CO4- U	(16)						
Or										
	(b)	(i) Discuss the VoIP challenges.(ii) How SIGTRAN is related with IP & SS7? Explain.	CO4- U	(8) (8)						
15.	(a)	(i) Give a brief note on integrated and differential services.	CO5 U	(8)						
		(ii) Explain the principle and applications of RSVP.		(8)						
Or										
	(b)	Give a detail notes on Multimedia protocols for real time interactive application with an example.	CO5 U	(16)						