С		Reg. No. :										
		Question Pap	er C	ode:	594	10]					
	B.E. / B.	Tech. DEGREE EX	AMI	NATIO	N, A	PRII	20	24				
		Elec	ctive									
	Ele	ectronics and Comm	nunica	tion E	ngine	ering	5					
	15UEC910 - MUI	LTIMEDIA COMPI	RESS	ION A	ND (COM	MU	NIC	ATIC	DN		
		(Regulati	ion 20)15)								
Dur	ation: Three hours	Answer AL	L Qu	estions			Max	kimu	m: 1	00 N	larks	5
		PART A - (5 2	x 1 =	5 Mark	s)							
1.	Which one of the following resource is not necessarily required on a CO1 file server?									1- F		
	(a) Secondary storage	(b) Processor	(c)	Netwo	ork		(d)				Monitor	
2.	Which image files are a	e files are a lossy format?									CO	2- F
	(a) GIF	(b) MPEG	(c)	JPEG				(0	l) PN	IG		
3.	According to the Nyquetimes the high	an an	alog	sign	al			CO	3- R			
	(a) One	(b) Two	(c)	Three				(0	d) Fo) Four		
4.	The brain of an H.323 p	he brain of an H.323 protocol is								CO	4- R	
	(a) Terminal	(b) Gatekeeper	(c)	Multic	ast U	Jnit		(0	l) Ga	atewa	ay	
5.	SSRC is bits long										CO	5- R
	(a) 16	(b) 8	(c)	32				(0	(d) 64			
		PART – B (5 x	x 3= 1	5 Marl	(s)							
6.	Discuss raster scan prin	ciple.								CO	1 - U	
7.	A discrete source emits one of six symbols for every milli seconds. The symbol probabilities are 1/2, 1/4, 1/8, 1/16, 1/32 & 1/32 respectively. First the source entropy and information rate.								The ind	CO	2- Aj	рр
8.	Illustrate the I,P and B-frames.									CO3- U		
9.	Describe any four functions of RAS signaling in H.323.								CO4- U			
10.	Mention the protocols for real time interactive applications.								CO5- U			

PART – C (5 x 16= 80Marks)

11. (a) (i) Discuss the interactive applications over the internet and
entertainment applications of multimedia.CO1- U(10)(ii) Distinguish the continuous media and block-mode media.CO1- U(6)

Or

- (b) Explain the PCM speech technique. CO1- U (16)
- 12. (a) Explain the importance of arithmetic encoding algorithm and CO2- App (16) encode the string with the probabilities of the character "went\$".
 The probabilities are: e=0.3, n=0.3, t=0.2, w=0.1, \$=0.1

Or

- (b) Consider a DMS with seven possible symbols x_i , i=1,2,....7 and CO2- App (16) the corresponding probabilities are $P(x_1)=0.46$, $P(x_2)=0.3$, $P(x_3)=0.12$, $P(x_4)=0.06$, $P(x_5)=0.03$, $P(x_6)=0.02$ and $P(x_7)=0.01$. Apply Huffman coding procedure to find the codeword and verify the properties of that coding technique. Also calculate its efficiency.
- 13. (a) Explain in detail about different coding techniques for audio CO3-U (16) compression.

Or

- (b) Analyzing the H.261 video encoder and infer the relation to the CO3-U (16) macroblock and frame formats.
- 14. (a) Explain in detail about architecture and signaling methods used in CO4-U (16)
 H.323. Also mention the protocols used with this.

Or

- (b) Explain the network architecture of SIP. Also discuss on how call CO4-U (16) can be established and released in SIP.
- 15. (a) Explain in detail about RSVP protocol. CO5- U (16)

Or

(b) Explain in detail about different streaming techniques for stored CO5-U (16) audio thus for making best service.