С		Reg. No. :											
		Question Pape	er (Cod	e: 9	941	0						
B.E. / B.Tech. DEGREE EXAMINATION, NOV 2022													
		Elec	etive	•									
Electronics and Communication Engineering													
	19UEC9	10– Multimedia C	Com	press	sion a	& Co	mm	unica	ation	l			
		(Regul	atio	n 20	19)								
Dur	ration: Three hours							M	axim	um:	100	Mar	ks
		Answer AL	LQ	uesti	ons								
PART A - $(5 \times 1 = 5 \text{ Marks})$													
1.	The delay that occur during the playback of a stream is called											CC)1 - U
	(a) stream delay (b) playback delay		(c) ji	tter			(d)) eve	ent de	elay		
2.	Which image files are a lossy format?								CC)1 - U			
	(a) GIF (b) MPEG		(c) JI	PEG				(d)	PNC	Ì		
3.	Moving Picture Experts Group (MPEG-2), was designed for high- quality DVD with a data rate of											CO	1 - U
	(a) 3 to 6 Mbps	(b) 3 to 6 Mbps (c) 5 to 6 Mbps (d) 6 to								o 7 N	7 Mbps		
4.	Maximum round trip del	ay for telephony a	is p	er IT	U R	econ	nmer	idati	on G	6.114	L C	01-1	U
	(a) 100 ms (b) 200	0 ms (c)	300	ms		((d) 4	00 m	IS				
5.	provides information about the multimedia file to be streamed over CO1- U HTTP.												
	(a) Media file (b) Met	a file		(c) N	lobil	le fil	e	(d) M	lessa	ige f	ile	
		PART – B (5 x	x 3=	15 N	Mark	s)							
6.	Explain the hardware used in multimedia										CO	1 - U	
7.	Define entropy. How entropy is related for the performance measure of statistical encoding?									of		CO	1 - U
8.	Distinguish between LPC and CELP.										CO	1 - U	
9.	Apply the functions of RAS signaling in H.323 related to bandwidth.									С	03-	App	

10. Discuss the different steps that are followed by the RTSP protocol for CO1-U playing multimedia content on a client machine?

$$PART - C (5 \times 16 = 80 \text{ Marks})$$

11. (a) Explain the color principles & Raster-scan principles of Digitized CO1- U (16) pictures.

Or

- (b) Explain in detail about hardware and software multimedia CO1- U (16) components.
- 12. (a) Analyze the importance of arithmetic encoding algorithms and CO4- Ana (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) Analyze the importance of arithmetic encoding algorithms 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
- 13. (a) Explain in detail about different coding techniques for audio CO1-U (16) compression.

Or

- (b) Explain in detail about different MPEG coding techniques for CO1-U (16) video compression
- 14. (a) Illustrate in detail about SS7 architecture with suitable CO4- Ana (16) explanation.

Or

- (b) Discuss the need and features of Quality of Service. CO1- U (16)
- 15. (a) Discuss on different real time interactive applications with CO1- U (16) necessary diagrams.

Or

(b) With neat diagram explain any one of the multimedia networking CO1- U (16) applications