

TUE OF TE

BEC/BTE613A

Sixth Semester B.E./B.Tech. Degree Examination, June/July 2025 Multimedia Communication

Max. Marks: 100

BANGALOWOTE: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M: Marks, L: Bloom's level, C: Course outcomes.

	Module – 1	M	L	C
a	Explain broadcast television network and ISDN.	10	L2	CO1
b	Explain Interactive television application for both cable and satellite network.	10	L2	CO1
	OR			
a	With a neat diagram, explain the modes of communication.	10	L2	CO1
b	Determine the propogation delay associated with the following communication channel: i) Connection through private telephone network of 1km. ii) Connection through a PSTN of 200 km iii) Connection over a satellite channel 5000km. Assume velocity	10	L3	CO1
	of propogation of a signal in case of: (i) and (ii) 2×10^8 m/Sec (iii) 3×10^8 m/sec.			
	Module – 2	Bear .		
8	With an example, explain different types of text representation in multimedia.	10	L2	CO2
t	Explain Raster Scan principle with neat schematic diagram for both television and computer.	10	L3	CO2
	OR			
а	Derive the time to transmit the following digitized image at both 64 kbps and 1.5 Mbps: i) 640 × 480 × 8 – VGA compatible image ii) 1024 × 768 × 24 – SVGA compatible image.	10	L2	CO2
ŀ	001110	10	L2	CO2
	Module – 3			2.0
a	The state of the s	10	L2	CO3
b	Explain JPEG encoding technique.	10	L2	CO3
	OR			
2	Explain the concept of run-length coding and statistical coding.	10	L2	CO3
b	Explain GIF and TIFF format.	10	L2	CO3
	1 of 2			
a b	Explain GIF and TIFF format.		-	

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		Module – 4		7	
Q.7	a.	Explain the working principle of DPCM.	10	L2	CO4
	b.	With example frame sequences. Explain the meaning of the following type compressed frame and the reasons for their use: i) I – frame ii) P – frame iii) B – frame	10	L2	CO4
		OR			
Q.8	a.	With a neat diagram, explain H.261 video encoder principle.	10	L2	CO4
	b.	Explain the coding principles of MPEG – 4.	10	L2	CO4
		Module – 5	Y		
Q.9	a.	Explain the principles of Hub Configuration.	10	L2	CO5
	b.	Explain the frame format and operation parameters of Ethernet/ IEEE 802.3.	10	L2	CO5
		OR CMRIT LIBRARY OR CMRIT LIBRARY Explain token Ring principle BANGALORE 560 037			
Q.10	a.	Explain token Ring principle. BANGALURE 300	10	L2	CO5
	b.	Write a short note on FDDI network components.	10	L2	.CO5

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