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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- V (New) EXAMINATION - WINTER 2019

Subject Code: 2151101	Date: 29/11/2019
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Subject Name: Audio Video Systems

Time: 10:30 AM TO 01:00 PM	Total Marks: 70
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Instructions:

1. Attempt all questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

		g	MARKS
Q.1	(a)	Explain what is Timbre and Pitch? What do you understand by Threshold of hearing and Threshold of pain?	03
	(b)	Explain sensitivity of human ear for different sounds.	04
	(c)	What are the bandwidths for telephone speech, normal programs and high fidelity programs? Prove that the bandwidth of less than 4 KHz is sufficient for telephone.	07
Q.2	(a)	Explain Cardioid Microphone.	03
	(b)	What is a tie-clip microphone?	04
	(c)	Compare Cone-type and Horn-type speakers.	07
	` '	OR	
	(c)	Explain different types of baffles.	07
Q.3	(a)	Explain Reverberation Vs Echo.	03
	(b)	Write a note on USB MP3 players.	04
	(c)	What is a Crossover network?	07
		OR	
Q.3	(a)	What are the advantages of Digital Audio?	03
	(b)	What is Resolution of a TV?	04
	(c)	What is Interlaced Scanning?	07
Q.4	(a)	Explain merits of Digital TV receivers.	03
	(b)	What is DTH technology?	04
	(c)	What is Resolution of a TV? What is Interlaced Scanning? Explain merits of Digital TV receivers. What is DTH technology? Write a short note on HDTV.	07
		OR	
Q.4	(a)	Explain advantages and disadvantages of Plasma screen.	03
	(b)	Compare Plasma TV and LED TV.	04
	(c)	Compare JPEG and MPEG.	07
Q.5	(a)	Compare LED TV and LCD TV.	03
	(b)	What is the difference between Direct View and Rear Projection System?	04
	(c)	Explain surround sound stereo receiver. What is Dolby digital surround sound?	07
		OR	
Q.5	(a)	Which 50 inch TV would you buy if your budget is 50K INR? Justify your answer.	03
	(b)	Explain importance of Shielding and Grounding.	04
	(c)	Explain procedure of Servicing and Maintenance of AV Systems	07
