Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

PDDC - SEMESTER–V • EXAMINATION – WINTER • 2014

Subject Code: X 51103 **Date: 04-12-2014**

Subject Name: Audio Video Engineering

Time: 10:30 am - 01:00 pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	List the sound absorbent materials and explain each in brief.	**07**
	(b)	Explain acoustic design of auditoriums in detail.	**07**
Q.2	**(a)**	Explain Cross over network in detail.	**07**
	(b)	Explain Voltage amplifier design in detail.	**07**
		OR	
	(b)	Explain Power amplifier classes in detail.	**07**
Q.3	**(a)**	Explain digital filtering in detail.	**07**
	(b)	Explain stereophony and multi-channel sound in detail.	**07**
		OR	
Q.3	**(a)**	Explain magnetic recording in detail.	**07**
	(b)	Explain moving coil microphone in detail.	**07**
Q.4	**(a)**	Explain television transmitter with block diagram.	**07**
	(b)	Explain encoding of color-difference signals.	**07**
		OR	
Q.4	**(a)**	Explain merits and demerits of negative modulation.	**07**
	(b)	Explain vectroscope in detail.	**07**
Q.5	**(a)**	Explain LCD, Plasma and LED display technology in detail.	**07**
	(b)	Explain NTSC color system in detail.	**07**
		OR	
Q.5	**(a)**	Explain RF tuner in detail.	**07**
	(b)	Explain interference suffered by carrier signals in detail.	**07**

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