Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
PDDC - SEMESTER–V • EXAMINATION – SUMMER 2013

Subject Code: X 51103   **Date: 16-05-2013**

Subject Name: Audio Video Engineering

Time: 02.30 pm - 05.00 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)**	Write a short note on inverse square law, reflection, refraction and root mean square measurements	**07**
	(b)	Write a short note on mental processes and audio level metering	**07**
Q.2	**(a)**	Explain digital filtering in detail	**07**
	(b)	Explain carbon and moving coil microphone in detail	**07**
		OR	
	(b)	Explain loudspeaker impedance in detail	**07**
Q.3	**(a)**	Explain public address systems and installations in detail	**07**
	(b)	Explain in detail magnetic recording and erasing	**07**
		OR	
Q.3	**(a)**	Explain in detail picture resolution	**07**
	(b)	Explain in detail Interlaced scanning	**07**
Q.4	**(a)**	Explain in detail video signal dimensions	**07**
	(b)	What is positive and negative modulation? Explain merits and demerits of negative modulation	**07**
		OR	
Q.4	**(a)**	Explain in detail Interference suffered by TV signals	**07**
Q.4	**(b)**	Explain in detail vestigial sideband transmission	**07**
Q.5	**(a)**	Draw the block diagram of PAL-D colour receiver	**07**
	(b)	Explain in detail vectroscope	**07**
		OR	
Q.5	**(a)**	Give the comparison in detail for NTSC, PAL and French colour TV system	**07**
	(b)	Write a short note on following i)HDTV ii)CRT iii)LCD iv)plasma v)LED	**07**

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