Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

PDDC - SEMESTER-V. EXAMINATION - SUMMER 2016

Subject Code:X51103		t Code:X51103 Date:06/05/201	Date:06/05/2016	
Tiı	me:0 tructio	Attempt all questions.Make suitable assumptions wherever necessary.	70	
Q.1	(a) (b)	List various types of Loud Speakers and describe them in brief with their usage. Explain terms: (1) Pitch (2) Phon (3) Acoustics (4) cross over distortion (5) Hue (6) Saturation (7) Additive colour mixing	07 07	
Q.2	(a)	A Two stage amplifier has a first stage voltage gain of 60 and a second stage	07	
	(b)	has voltage gain of 56. Find the total gain in dBS. Draw and explain the single ended versus push pull operation of amplifier. OR	07	
	(b)	Explain various classes of amplifier based on location of operating point.	07	
Q.3	(a)	What is stereophony? Explain all stereophonic system and other multi- channel sound system.	07	
	(b)	List the microphones used in audio devices and explain any two in detail. OR	07	
Q.3	(a)	Explain Briefly: (i) Woofers and Tweeters. (ii) Sound cards and Mixers.	07	
	(b)	What is sampling? How quantizing is useful? Also draw and explain PCM system in detail.	07	
Q.4	(a)	How to obtain colour difference signal? Why the colour difference signal (G-Y) is not selected for transmission?	07	
	(b)	Explain the merits and demerits of negative modulation in TV Transmission. OR	07	
Q.4	(a)	Describe with simple circuit the basic principle of electronic tuning. How switching diodes are used to select channel in an electronic TV tuner?	07	
	(b)	Draw block diagram of PAL-D colour receiver.	07	
Q.5	(a) (b)	Short note: 4:3 Vs 16:9 for digital video Explain the following devices: (1) Sweep and marker generator (2) Vectroscope	07 07	
0.5	(.)	OR	07	
Q.5	(a)	List the different types of TV systems and standards used and explain any two in detail.	07	
	(b)	What is LCD? Explain all types of display technology used in LCD and explain it. Also give its comparisons.	07	
