Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER-V EXAMINATION - WINTER 2015

Su	bject	t Code:X51103 Date:05/12/201	15
Tiı	•	Attempt all questions. Make suitable assumptions wherever necessary.	70
Q.1	(a) (b)	Explain basic monochrome television transmitter and receiver in detail. Explain the cochlea in detail.	07 07
Q.2	(a) (b)	List the characteristic of microphone and explain each in detail. Draw the picture signal with details and explain in brief every dimension of picture signal.	07 07
		OR	
	(b)	Draw the picture tube and explain each element of picture tube in brief.	07
Q.3	(a) (b)	Give the comparison between positive and negative modulation. Explain carbon microphone in detail. OR	07 07
Q.3	(a) (b)	Explain crystal loudspeaker in detail. Draw the block diagram of RF Tuner and explain its operation in detail.	07 07
Q.4	(a) (b)	Explain production of color difference signals and give advantage of two color difference signals transmission over three color signals transmission. Explain video pattern generator in detail.	07
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Q.4	(a) (b)	Explain vectroscope in detail Explain NTSC system in detail.	07 07
Q.5	(a) (b)	Explain 4:3 Vs 16:9 aspect ratio. Explain HDTV in detail.	07 07
		OR	
Q.5	(a) (b)	Explain non-linear editing in detail. Explain each term in brief: (1)CTR (2) LCD (3)Plasma (4)LED	07 07
