Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

Subject Code: 2151101

BE – SEMESTER – V (NEW) EXAMINATION – WINTER 2015

Date:10/12/2015

Tiı	Subject Name: Audio Video Systems Time: 10:30am to 1:00pm Total Marks: 7 Instructions:		
1115	1. 2.	Attempt all questions.	
Q.1	(a)	What is the meaning of the following terms pertaining to sound? (i)Pitch (ii) Timbre (iii) Overtone (iv) Phon (v) Loudness(vi)Amplitude (vii) Phase.	07
	<b>(b)</b>	List the types of microphones used in sound engineering and explain any Two in detail.	07
Q.2	(a)	<ul><li>(i)Explain the Working of Public address system with the help of a neat block diagram.</li><li>(ii) Give characteristics of Digital Audio Broadcasting. Write its advantage and disadvantages</li></ul>	07
	<b>(b)</b>	What do you understand by the terms Positive modulation and Negative modulation? What are the merits and demerits of negative modulation?  OR	07
	<b>(b)</b>	Write a short note on interlaced scanning.	07
Q.3	(a) (b)	<ul><li>(i) Explain Picture Resolution and Bandwidth.</li><li>(ii)Explain what is meant by video compression .why it is needed?</li><li>Explain Digital television Receiver with block diagram.</li></ul>	07 07
	(2)	OR	0.
Q.3	(a) (b)	Write a short note on Video on demand. Write a short note on High Fidelity system.	07 07
Q.4	(a) (b)	Explain Projection Television with detail.  Write a short note on stereophonic sound system.  OR	07 07
Q.4	(a) (b)	Write a short note on Extended Definition Television (EDTV). Write a short note on 3D TV.	07 07
Q.5	(a) (b)	Explain LCD Matrix types with advantages and disadvantages. Write a short note on plasma television.  OR	07 07
Q.5	(a)	Write a short note on LED TV.	07
	<b>(b)</b>	<ul><li>(i) Explain common faults &amp; Defective stages of television receiver.</li><li>(ii)Compare front projection system and rear projection system.</li></ul>	07

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