Enrollment No: _	Exam Seat No:	
	C.U.SHAH UNIVERSITY	
	Summer Examination-2018	

Subject Name: Audio Video Engineering

Subject Code: 4TE06AVE1 Branch: B.Tech (EC)

Semester: 6 Date: 27/04/2018 Time: 02:30 To 05:30 Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1 Define the following terms:

(14)

- a) Pitch.
- **b**) Timbre.
- c) Directivity of a microphone.
- **d**) Reverberation.
- e) Echoes.
- f) Aspect Ratio.
- g) Brightness.
- h) Saturation.
- i) Luminance.
- j) HUE.
- **k**) Resolution.
- 1) Public Address System.
- m) Overtone.
- **n**) Phon.

Attempt any four questions from Q-2 to Q-8

Q-2 Attempt all questions

(14)

- (a) Draw the block diagram of PAL-D colour television receiver and explain it in detail.
- (b) Write the principle of loudspeake. Describe the characteristics that decides quality of operation of loudspeaker

Q-3 Attempt all questions

(14)

- (a) List the microphones used in audio devices and explain any two in detail.
- (b) Explain the block diagram of PAL D decoder.



Q-4		Attempt all questions	(14)
	(a)	Explain acoustic design of auditorium in detail.	
	(b)	Describe interlaced scanning and justify that "For interlaced scanning the total	
	, ,	number of lines in any TV system must be odd.	
Q-5		Attempt all questions	(14)
	(a)	Draw and explain the Composite Video Signal in detail.	
	(b)	Draw and explain Color Pattern Generator.	
Q-6		Attempt all questions	(14)
	(a)	Explain encoding of color difference signals and phase error cancellation in PAL	` ′
	. ,	Television system.	
	(b)	What do you understand by the terms Positive modulation and Negative	
	, ,	modulation? What are the merits and demerits of negative modulation?	
Q-7		Attempt all questions	(14)
•	(a)	Write a short note on HDTV.	(,
	(b)	Compare plasma TV and LCD TV in detail.	
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Q-8		Attempt all questions	(14)
	(a)	Explain Digital Audio Broadcasting. Write its advantage and disadvantages.	
	(h)	Explain tweeters and its types	

