C.U.SHAH UNIVERSITY **Summer Examination-2019**

Subject Name: Audio Video Engineering

Semester: 6		Date: 30/04/2019	Time: 10:30 To 01:30	Marks: 70
nstruct	tions:			
(1)	Use of P	rogrammable calculator & an	y other electronic instrument is p	prohibited.
(2)	Instructio	ons written on main answer b	book are strictly to be obeyed.	
(3)	Draw nea	at diagrams and figures (if ne	ecessary) at right places.	
(4)		suitable data if needed.		

- Pitch a)
- **b**) Timber
- Luminance **c**)
- d) Kell factor
- e) Reverberation
- Baffles f)
- Ghost interference **g**)
- **h**) Threshold of hearing
- Image continuity **i**)
- Loudness j)
- **k**) Brightness
- Pre equalizing pulses **l**)
- **m**) Phon
- **n**) Resolution

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

Q-2	(a)	Attempt all questions What is scanning and why it is required? Explain interlaced scanning and state its advantages. Also discuss factors affecting number of scanning lines in a TV system.	(14)
	(b)	Draw the block diagram of PAL-D Decoder and explain.	
Q-3	(~)	Attempt all questions	(14)
C	(a)	List different types of Loud Speakers and explain any two with neat diagram.	
	(b)	Draw Composite Video Signal for three consecutive lines and explain each part in detail.	
Q-4		Attempt all questions	(14)
•	(a)	Discuss reverberation time and architectural Acoustics in detail.	. ,
	(b)	Discuss in brief digital audio broadcasting and PA system.	
Q-5		Attempt all questions	(14)
			of 2



	(a) (b)	Compare NTSC, PAL and SECAM colour television systems. What is HDTV? List different types of display technology used for TV and explain any two of them.	
Q-6		Attempt all questions	(14)
C	(a)	List the types of loud speakers used in sound engineering and explain any two indetail.	
	(b)	Explain encoding of colour difference signals and phase error cancellation in PAL Television system.	
Q-7		Attempt all questions	(14)
χ,	(a)	Explain stereophony and multi-channel sound in detail with diagram.	(1)
	(b)	Explain Vestigial sideband transmission. Discuss advantages of negative modulation in television system.	
Q-8		Attempt all questions	(14)
C	(a)	What is LCD? Explain all types of display technology used in LCD. Also give its comparisons.	
	(b)	Write a short note on plasma television.	

