	Enrollm	ent No:		_		
		C.U.SHA	AH UNIVERSITY			
		Winter	Examination-2019			
	Subject Name: Audio Video Engineering					
	Subject Code: 4TE06AVE1		Branch: B.Tech (EC)			
	Semester	r:6 Date: 12/09/20	19 Time: 10:30 To 01:30 Marks: 70			
	Instruction	ons:				
			tor & any other electronic instrument is prohibited.			
			nswer book are strictly to be obeyed.			
		Draw neat diagrams and figure Assume suitable data if neede	es (if necessary) at right places.			
	(4) 1	Assume sunable data if neede	J.			
Q-1		Define the following terms	:	(14)		
	a)	Hue		()		
	b)	Saturation				
	c)	Luminance				
	d)	Overtone				
	e)	Threshold of pain				
	f)	Pitch				
	g)	Timbre				
	h)	Inverse square law				
	i) .j)	Directivity Loudness				
	k)	Resolution				
	l)	Aspect Ratio				
	m)	Phon				
	n)	Compatibility				
Atte	empt any f	Four questions from Q-2 to C	Q-8			
Q-2	<u>}</u>	Attempt all questions		(14)		
	(a)		ng and justify that "For interlaced scanning the total			
	~ .	number of lines in any TV s				
0.2	(b)		a sound pre-amplifier and explain them in detail.	(4.4)		
Q-3		Attempt all questions	in audio devices and avalain any two in detail Al-	(14)		
	(a)	classify all microphones acc	in audio devices and explain any two in detail. Also			
	(b)	Draw and explain the Comp				
Q-4	, ,	Attempt all questions	osite video signarin detan.	(14)		
ν.	(a)		coustic. Explain Fletcher Munson Curve.	(- •)		



that decides quality of operation of loudspeaker and explain it.

Write the principle of loudspeaker and explain it. Also write the characteristics

(b)

Q-5		Attempt all questions	(14)
	(a)	Why vestigial sideband transmission is used in TV? Explain Vestigial sideband transmission in detail. What are the merits & demerits of VSB transmission?	
	(b)	What are the functions of a typical TV tuner? Draw and explain block diagram of VHF tuner	
Q-6		Attempt all questions	(14)
	(a)	Draw the block diagram of Monochrome TV Transmitter and explain each block in detail.	· · ·
	(b)	Describe with block diagram production of Colour-difference signal and justify the statement "(G-Y) is not chosen for transmission.	
Q-7		Attempt all questions	
	(a)	Enlist the characteristics of Digital Audio Broadcasting. Also write its advantages and disadvantages.	
	(b)	Which modulation system is used for Picture and Sound in TV?Why? Also explain Positive and Negative modulation. Enlist the advantages of Negative modulation.	
Q-8		Attempt all questions	(14)
	(a)	Which TV will you buy, LED/LCD/PLASMA? Justify your answer by showing the comparison between the three	` ′
	(b)	Write a note on: Cable Television Network	

