	Enrollm	ent No:		Exam Seat No:			
		$\mathbf{C.U}$	SHAH	UNIVERSITY			
	Winter Examination-2018 Subject Name: Audio Video Engineering						
	Subject Code: 4TE06AVE1			Branch: B.Tech (EC)			
	Semester	r: 6 Date:	24/10/2018	Time: 02:30 To 05:30	Marks: 70		
	(2) I (3) I	Use of Programmab Instructions written	on main answer b and figures (if ne	ny other electronic instrument is pook are strictly to be obeyed. ecessary) at right places.	rohibited.		
Q-1		Attempt the follo	wing questions:		(14)		
•	a)	Define Aspect Rat	~ -		,		
	b)	What is audio Sign					
	c)	Define Resolution					
	d)	Write a full form of					
	e)	Why scanning line	e has always odd	value?			
	f)	What is pitch?					
	g)	What is Echoes?	C V C C :	777.7			
	h)	State the functions			onto?		
	i) j)	In subtractive color mixing method, which Two color produces magenta? What is mean by compatibility?					
	J) k)	What is Phon?	ompationity:				
	l)	What is the function	on of color killer	circuit?			
	m)	What is Comb filt					
	n)	What is frequency	interleaving?				
Atte	empt any f	four questions from	n Q-2 to Q-8				
Q-2		Attempt all quest			(14)		
	(a)	Write the princ		peaker. Describe the charact	teristics that		
		decides quality of	-	-	• 4		
	(b)			l justify that "For interlaced	scanning the		
Ω^2	!	totalnumber of lin	•	em must be odd.	(14)		
Q-3	(a)	Attempt all quest Draw and explain		vontal sync detail	(14)		
	(a) (b)	-			significance.		
	(10)	Explainseparation		C	515111110uilee.		

(a)

Q-4

Explainseparation of U and V color phasors **Attempt all questions**Draw and explain Color Pattern Generator. **(14)**

- **(b)** Compare plasma TV and LCD TV in detail.



Q-5		Attempt all questions	(14)
	(a)	Sketch the sectional view of a picture tube that employs electrostatic focusing and	
		electromagnetic deflection and label all the electrodes.	
	(b)	Draw and Explain Pal-D color receiver.	
Q-6		Attempt all questions	
	(a)	Explain Digital Audio Broadcasting. Write its advantage and disadvantages.	
	(b)	Explain Video pattern generator.	
Q-7		Attempt all questions	
	(a)	Explain tweeters and its types.	
	(b)	Explain HDTV in detail.	
Q-8		Attempt all questions	(14)
	(a)	Explain TV transmitter and receiver in detail.	
	(b)	Give comparison of NTSC, PAL and SECAM color systems	

