V.P. & R.P.T.P. Science College, V.V.Nagar

T.Y B.Sc. Sem-VI EXAMINATION, Instrumenatation Vocational

SUB. CODE:-US06CIN0V6

Signal conditioning and communication.

DATE:-18/03/2019

TIME:-10:00 am to 12:00 noon

MARKS-50

Q-1	Choose correct answer	2	[8]
1.	In amplitude modulation process the	of carrier is constant	[o]
1.	(A) Frequency	(C) Phase	
	(B) Amplitude	(D) None of these	
2.	The problem of flicker is solved by	scanning.	Science
۷.	(A)Interlaced	(C)Rectangular	- Ce
	(B) No scanning	(D) None of these	10
3.	IF frequency in case of AM Radio Receiver	I I TD	RARY
J.	(A) 455 Khz	(C) 455Hz	/*
	(B) 45Hz	(D) None of these	- Nogot
4.	Aspect ratio in TV is given by	(b) Notice of these	, Nag
	(A) 4:3	(C) 4:4	
4	(B) 3:4	(D) None of these	
5.	In frequency modulation process the		
٥.	(A) Frequency	(C) Phase	
	(B) Amplitude	(D) None of these	
6.	gun is used in shadow-mask picture tube.		
	(A) Delta	(C) Rectangle	
	(B) Square	(D) None of these	
7.	Trintron colour picture tube uses		
	(A) Single	(C) Triple	
	(B) Double	(D) None of these	
8.	Bourdon tube is not used in telemetry.		
-	(A) Voltage	(C) Current	
	(B) Radiofrequency	(D) None of these	*
	(=) management	(-)	
Q-2	Short answer type question. (any five)	1,	[10]
1.	Explain frequency modulation drawing necessary diagram?		
2.	What is Aspect Ratio.		
3.	What is interlaced scanning.		
4.	Explain additive colour mixing drawing diagram.		
5.	Explain substractive colour mixing drawing diagram.		
6.	Draw the block diagram of general telemetry system.		
7.	Explain what is telemetry.	# 10 Part Control of the Control of	
8.	Define modulation		
Q.3	Give an account of Amplitude modulation		[80]
		R	_
Q.3	Draw the block diagram of superheterody	ne radio receiver and explain function of	[80]
	each block.		

Q.4	Draw the block diagram of black & white T V Receiver and also explain function of each block.	[80]
	OR	
Q.4	Draw the block schematic arrangement of colour TV camera and explain its working.	[80]
Q.5	Give an account of image orthicon tube.	[08]
0.5	OR OR	
Q.5	Give an account of Vidicon Tube	
Q.6	List different types of landline telemetry, explain any two in detail.	[08]
	OR	
Q.6	Give an account of pulse code modulation telemetry.	[80]

