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SARDARPATEL UNIVERSITY V.V.NAGAR

B.Sc.(Vth SEM.)INSTRUMENTATION (V)EXAMINATION SUBJECT: Signal Conditioning & Communication

SUB. CODE: USO5CINV06

DATE	L81040	to 1:00 pm	MARKS-70
Q-1	Choose correct answer		[10]
1.	Tristate switch has low, high and	output states.	·
	(A) Floating	(C) Zero.	
	(B) not floating	(D) None of these	
2.	Registers are made of		
	(A) Flip-flop	(C) Resistor	
	(B) Capacitor	(D) None of these	,
3.	Incounter data is rotated.		
	(A) Ring.	(C) shift right	
	(B) Shift left.	(D) None of these	
4.	Flash type A/D Converter is	converter.	
	(A) Fastest	(C) Slow	
	(B) Very slow	(D) None of these	
5.	Successive approximation type A/D Conve	erter converter.	
	(A) Fast	(C) Slowest	
	(B) Very fast	(D) None of these	
6.	In V/T type A/D converter	is constant.	
	(A) Frequency	(C) Time	
	(B) Voltage	(D) None of these	
7.	The Bell 103 type MODEM is	duplex.	
	(A) half	(C) full	
	(B) triple	(D) None of these	
8.	The Schmitt trigger has threshold	old pts	•
	(A) Two	(C) No Point	
	(B) Three	(D) None of these	
9.	Schering Bridge is used for the measurement of unknown		·
	(A) Resistance	(C) Inductance	
	(B) Capacitance	(D) None of these	
10.	Maxwell bridge is used for measuring	•	
	(A) Resistance	(C) Inductance	
	(B) Canacitance	(D) None of these	

Q-2	Short answer type question. (any ten)	[20]		
1.	Draw neat diagram of FSK.	•		
2.	Explain Asynchronous data format.			
3.	Draw the block diagram of digital data transmission using MODEM.			
4.	Draw the operation diagram of successive approximation converter.			
5.	Draw the figure of 3-bit parallel simultaneous type A/D converter.			
6.	Draw the circuit of 3 bit serial shift register			
7.	Draw the circuit of weighted resistor type 3 bit D/A converter.			
8.	Write a truth - table tri-state switch.			
9.	Explain linearity, sensitivity and accuracy.			
10.	Draw the circuit diagram for Schering bridge.			
11.	Draw the circuit diagram for hay bridge			
12.	List different types of dc bridges.			
Q.3	Explain working of R-2R ladder type D/A converter.	[10]		
	OR			
Q.3	Give an account of Tristate switch.	[10]		
Q.4	Give an account of Bell 103 Modem.	[10]		
	OR			
Q.4	Give an account of Modems & interfaces.	[10]		
Q.5	Explain in detail voltage to frequency type A/D converter.	[10]		
	OR			
Q.5	Explain in detail working of counter type A/D converter.	[10]		
Q.6	Give an account of Wien bridge.	[10]		
	OR			
Q.6	Give an account of Wheatstone bridge.	[10]		

