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SARDARPATEL UNIVERSITY

T.YB.Sc. Sem-V EXAMINATION

SUB. CODE:-US05CINV06 Signal conditioning and communications

DATE:-03/11/2018, Saluaday TIME:-10:00 am to 1:00 pm MARKS-70

Q-1	Choose correct answer		[10]
1.	Tristate switch has output	ıt stages.	
	(A) one	(C) two	
	(B) three	(D) None of these	
2.		converter is	
	(A)fastest	(C) slowest	
	(B) medium	(D) None of these	
3	In voltage to frequency type A/D		
	(A) time	(C) voltage	
	(B) frequency	(D) None of these	
4.	In counter data is circulated		
	(A) Ring	(C) Resistor	
	(B) Transistor	(D) None of these	
5.		pe shifted in direction	_
	(A) one	(C) both	
	(B) three	(D) None of these	
6.	Schmitt trigger has U.T.P. and		
0.	(A) L.T.P.	(C) M.T.P.	
1	(B) Zero	(D) None of these	
7	Successive approximation converter		
7	(A) slowest	(C) fastest	
	(B) random	(D) None of these	
0	MODEM is also called	(ALC 201)	
8.		(C) DCE	
	(A) DTE	1	
•	(B) DTT	(D) None of these	
9.	AC/DC Bridge consists ofa		
	(A) one	(C) two	
40	(B) three	(D) None of these	
10.	The reactance of Inductor is given by		/Q/N
	(A) 2πfl	(C) 2πfc	
	(B) 1/2πfc	(D) None of these	[00]
			[20]
Q-2	Short answer type question (any ter	n)	**
1.	List D/A specifications.		
2.	Draw FSK modulation diagram.		
3.	Draw the operation diagram of successive operation converter.		
4.	Draw the circuit of voltage to frequency ADC.		
5.	Draw the circuit showing interconnection of S/H & A/D converter.		
6.	Draw the circuit of weighted resistor type D/A convertor		
7.	Draw the logic circuit of 4-bit shift register.		
8.	Draw the block diagram of data communication system.		
9.	Draw the figure of asynchronous data format.		
10.	What is a bridge? Define it.	\$	
11.	Draw the neat diagram of Hay bridge	e.	
12.	List different types of a.c Bridges.		
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	Explain Wein-bridge in detail.	[10]
	OR	
	Give an account of Wheaston bridge.	[10]
£3.	Give an account of Modems and Interfaces.	[10]
	OR	
	Give an account of Schmitt trigger as a interface and write its advantages.	[10]
544	Draw a neat diagram of Dual Slop type A/D Convertor and explain its working OR	[10]
	Explain in detail Parallel type ADC.	[10]
	Explain Tristate Switch in detail with necessary circuit diagram and truth table. OR	[10]
		[10]
	ii a	OR Give an account of Wheaston bridge. Give an account of Modems and Interfaces. OR Give an account of Schmitt trigger as a interface and write its advantages. Draw a neat diagram of Dual Slop type A/D Convertor and explain its working OR Explain in detail Parallel type ADC.

