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	SEAT No	
 T	1,2/A157	

SARDAR PATEL UNIVERSITY

B.Sc. (6th Semester) Examination Wednesday, 28 March 2018

10:00 am to 01:00 pm

		IU:UU am) pm	
			ronics	C	
		US06CELE02-	Digital	•	l Marks : 70
Q.1 I	Multiple choice que	stions.			[10]
1.	Fusible links are us	ed in type of	f memor	` Y.	
		(b) PROMs		•	we stranger that any
2.		OM is			
		nization Memory	(b) Pro	grammable Read C	nly Memory
	(c) Programmable	Rearrange Memory			
3.	The Static RAM car	n store data as long as	5	is applied to t	:he chip.
	(a) Power	(b) Bits	(c) B	ytes	
4.	CCD is type of	memory.			
	(a) Static	(b) Dynamic	(c) E	3oth (a) & (b)	
5.	Retrieving data fro	m memory is called_		memory.	each completely to the
	(a) Writing	(b) Executing	(c)	Reading	
6.	Tri state switch ha	s low, high and	stat	e.	
	(a) Floating	(b) Short	(c) Lov	w impedance	
7.	Different values of	resistor are used in _		type of D/A cor	verter.
÷	(a) 2R-R	(b) Weighted resisto	r	(c) R-2R	
8.	Another type of co	ounter type ADC is		*	
	(a) Voltage ramp	(b) Analog	g ramp	(c) Digita	ıl ramp
9.	Successive approx	imation convertor is_	****	_ A/D converter.	روده وراه المعادم والمراج والأساء
	(a) Fastest	(b) Medium		(c) Slowest	
10	.D/A converter is a	part of conver	ter.		
	(a) A/A	(b) A/D	(c) D/A		
Q.2	Answer any TEN qu	uestions in brief.	-		[20]
1.	Define Main and P	eripheral memory.			
2.	Give the difference	e between program a	nd data	memory.	
3.	Draw the figure of	dynamic memory cel	l and ex	plain it in brief.	
4.	State the difference	ces between static RA	M and E	ynamic RAM.	
					[P. T. O.]

- 5. List the parameters of DAC.
- 6. Draw the circuit of weighted resistor type DAC.
- 7. Draw the block diagram of 3-bit flash memory.
- 8. Draw the pin diagram of ADC 0801.
- 9. Draw the block diagram of successive approximation A/D converter.
- 10. What do you mean by A/D conversion.
- 11. List the disadvantages of weighted resistor type D/A converter.
- 12. Calculate the number of resistors and comparators required in 3-bit flash type

Q.:	3 (2) 0:	the state of the s
	(b) Explain the role of memory in a computer system. OR	[07] [03]
Q.3	(a) Explain ROM timing. (b) Explain ROM organization.	[07] [03]
Q.4	Explain semiconductor RAMs.	
Q.4	OR Explain the different types of ROMs.	[10]
Q.5	(a) Explain R-2R ladder type DAC in detail.(b) Give an account of tri state switch.	[10]
Q.5	OR (a) Explain Counter type A/D converter. (b) Explain tracking type A/D converter.	[04] [06] [04]
Q.6	Explain Voltage to Time A/D converter.	[10]
Q.6	OR Explain voltage to frequency type A/D converter.	[10]
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