	1	Either	4	* O 4 3 5 *	AR - 0636		
9.	A)	What is A/D and D/A converter? Explain the need of data converters.	7	B.C.A. Part - I Semester - II Digital Techniques - II Paper - 2ST3			
		Explain the working of R-2 R type D/A converter.	4	P. Pages: 4			
	C)	Draw block diagram of counter type A/D	_	Time: Three Hours	Max. Marks: 60		
		converter and explain its working. OR		•	ons are compulsory. t diagrams wherever		
10.	A)	Explain the working of weighted resistor type D/A converter.	4	Either 1. A) Draw logic diagram	of a CK-RSFF and 6		
	B)	Draw block diagram of successive approximation type A/D converter and explain its working.	4	explain its working. B) What is Multivibrato transistorised astable	er? Explain working of 6		
	С) Draw and explain IC ADC 0808 with pin diagram.	4	· ·	OR		
		******		2. A) Explain the working diagrams and truthta	9		
,				B) What is race around Explain in detail.	condition in JKFF? 4		
				C) State uses of PRESE terminals in flip flops			
4.17		4 216	/ 100	AR - 0636 1	P.T.O		

3.	Either A) Define i) Counter ii) Asynchronous counter	4		B	Explain the working of Ring counter with neat diagram.	/	•
	iii) Synchronous counteriv) Decade counter				OR		
	B) Explain working of 3- bit asynchronous counter.	4	6.	A)	Draw block diagram of PISO shift register and explain its working.		6
	C) Draw pin diagram of IC 7490 and explain functions of all pins.	4		B)	Draw block diagram of IC 7495 and explain it in detail.		6
	Parties Parties				Either		
	OR		7.	A)	What is memory? Give classification of memories.		4
4.	A) Define i) Modulus of a counter. ii) Up counter iii) Down counter	4		B)	Explain construction of floppy disk.	4	4
	iv) Modified counter.	•		C)	Differentiate between RAM and ROM.	4	1
	B) Draw circuit diagram of a 3-bit synchronous counter and explain its	4	OR				
	working.		8.	A)	What is CD-ROM? Explain the working of CD-ROM.	4	-
	C) State applications of counters.	4					
-	Either			B)	With the help of neat diagram explain the construction of Winchester disk.	4	
5.	 A) What is shift register? Explain the working of 4-bit SISO shift register. 	6		C)	Explain PROM and EPROM in detail.	4	