(Contd.)

B.C.A. (Part-I) Semester-II Examination DIGITAL TECHNIQUES—II Paper—2ST3

lim	ie : I	hree Hours] [Maximum Marks	: 60
Not	te :	-(1) ALL questions are compulsory. (2) Draw neat diagrams wherever necessary.	
		(3) Due credit will be given to neatness.	
1.	(A)	What is multivibrator ? Explain working of transistorized Astable multivibrator neat diagram.	with 6
	(B)	What is flip-flop? Explain Clock-RS flip flop with logic diagram and table.	truth 6
		OR	
2.	(P)	Draw and explain JKMS flip-flop with neat logic diagram and truth table.	8
	(Q)	Explain D-flip flop with diagram and truth table.	4
3.	(A)	What is counter? Explain working of 4-bit asynchronous counter with diagram truth table.	and
	(B)	Draw diagram of IC 7490 and explain its operation.	6
		OR	
4.	(P)	What is up/down counter? Explain 3 bit up/down counter.	6
	(Q)	What are Synchronous and Asynchronous counters? State applications of count	er. 6
5.	(A)	Explain the working of Ring counter with neat diagram.	6
	(B)	What is shift register? Explain the working of 4-bit SISO right shift register.	6
		OR	
6.	(P)	What is PIPO shift register? Explain its operation with neat diagram.	6
	(Q)	Draw block diagram of IC 7495 and explain in detail.	6

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7.	(A)	Explain various types of Read Only Memory (ROM).	6
	,	Explain:	
		(i) Floppy Disk	
		(ii) Compact Disk	
		(iii) DVD.	6
		OR	
8.	(P)	What is memory? Explain memory hierarchy with neat diagram.	6
	(Q)	Explain static RAM cell with neat diagram.	6
9.	(A)	Explain the construction and working of R-2R type D/A converter.	6
	(B)	Draw and explain IC ADC 0808 with block diagram.	6
		OR	
10.	(P)	What is A/D and D/A converter ? Explain the working of weighted resistor type	D/A
		converter.	6
	(Q)	Draw the block diagram of successive approximation type A/D converter explain.	and