

Time: 3 Hours ]

Code: 15EC32T

[ Max. Marks : 100

Register			,	
Number				 

## III Semester Diploma Examination, April/May-2017

## DIGITAL ELECTRONICS

Note	: (i) Answer any SIX questions from Part-A.  (ii) Answer any SEVEN questions from Part-B.	
	PART-A	
1.	Define Multiplexer. Explain the working of 4:1 Multiplexer with suitable diagram	am. 5 TA CONSOLE!
2.	Compare combinational and sequential circuits.	Dipl <mark>5</mark> ma - [All Branches]
3.	Construct 4-bit Johnson counter with suitable logic diagram and truth Table.	Beta Console Education  [3*]  5
4.	Explain how to configure the IC7490 as a Decade counter.	5 Diploma Question Papers [2015-
5.	Define:  (a) Resolution  (b) Accuracy  (c) Monotonocity  with respect to DAC	Beta Console Faccation
6.	Describe the working principle of SRAM.	5
7.	List five differences between the SRAM and DRAM.	5
8.	Realize the full adder using PROM.	5
9.	List the five comparisons between TTL logic devices with CMOS logic devices.	5
	1 of 2	ırn over

(ii)

Fan out

(v) Noise Margin

(iii) Propogation Delay(iv) Power dissipation