rgpvonline communications: 5 ] [Total No. of Printed Pages: 3 Roll No. ..... EC-403(N) B. E. (Fourth Semester) EXAMINATION, Dec., 2010 (New Scheme) (Electronics & Communication Engg. Branch) DIGITAL ELECTRONICS [EC-403(N)]Time: Three Hours Maximum Marks: 100 Minimum Pass Marks: 35 Attempt all questions. All questions have choice. All Note: questions carry equal marks. 20 1. Convert the following terms:  $(153.6875)_{10} = ()_{8}$ (i) (ii)  $(26153 \cdot 7406)_8 = ()_{16}$ (iii)  $(630 \cdot 4)_8 = ()_{10}$ 

(iv)  $(60236002)_8$  divide by  $(256)_8$ 

(v)  $(7643)_8 = ()_2$ 

(vi)  $(001111001010101)_2 = ()_{16}$ 

*Or* 

Explain the following methods:

10, 10

- (i) Karnaugh's map method
- (ii) Quine and McCluskey's method

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(a)

(b)

(b)

(i)

memories:

(ii) DRAM

(iii) ROM

(iv) PROM

**SRAM** 

(i)

Define

D-flip-flop

and table.

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## [3]

5. (a) Compare the following logic families: RTL, DTL, TTL and ECL.	•
	10
(b) Describe PMOS, NMOS and CMOS logic.	10
Or	
Write short notes on the following:	20
(a) Universal gates .	20
(b) Clocked R-S flip-flop	•
(c) Binary ripple counter	