



BRAINWARE UNIVERSITY

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Brainware, Kolkata -7001

Time: 2:30 Hours

Term End Examination 2023
Programme – B.Tech.(ECE)-2019
Course Name – Digital System Design
Course Code - PCC-EC302
(Semester III)

Full Marks: 60

c) 2

[T]	he figure in the margin indicates full marks. Cand own words as far	idates are required to give their answer as practicable.]	's in their
1.	Grou (Multiple Choice T Choose the correct alternative from the followin	ype Question)	1 x 15=15
(i)	Select the two inputs of the NAND gate if the output is low		
	a) 0 c) 10	b) 1 d) 11	
(11)	Find the value of X if (734)8 = (X)16 a) C 1 D	b) D C 1	
(iii)	c) 1 C D d) 1 D C Identify the code where all successive numbers differ from their preceding number by single bit -		
	a) Binary code	b) BCD	
(iv)	c) Excess – 3 d) Gray When an input signal A=11001 is applied to a NOT gate serially, its output signal is represented as		
	a) 111	b) 110	
(v)	c) 10101 The fastest logic in logic families is indicated as	d) 11001	
	a) ECL	b) TTL	
(vi)	c) CMOS Convert (0.345)10 into an octal number	d) LSI	
	a) (0.16050)8	b) (0.26050)8	
(vii)	c) (0.19450)8 According to the property of minterm, calculate equal to 1 for K input variables?	d) (0.24040)8 se how many combination will have va	lue
	a) 0	b) 1	

(viii) How many Flip-Flops are required to construct mod-16 counter?

d) 3

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