VIGNAN'S Institute of Information Technology (Autonomous):: Visakhapatnam VR20
2021AB_I B. Tech II Semester MID-I Examinations, July-2022   Set - 2

Course Code: 1005201201   Course Name: Computer Organization   Date: 08.07.2022
Branch: CSE, IT & AI&DS   Max. Marks: 30   Time: 90 min.

Question Paper Consists of **Part – A** and **Part – B**
Answer all questions

Part – A

Q.NO		QUESTIONS	CO	MARKS
1.	a.	Convert $(145)_{10}$ to ( )$_8$.	CO1	2M
	b.	Draw 2X1 MUX.	CO2	2M
	c.	Find the value of 1000011100 - 0010001001	CO1	2M

Part – B

Q.NO		QUESTIONS	CO	MARKS
2.	a.	Simplify using K Maps f(A,B,C,D)= π(0,2,3,8,9,12,13,15).	CO1	5M
	b.	Minimize using K Maps f(A,B,C,D)= Σ(4,6,7,15).	CO1	5M
3.	a.	Build a T flip flop and explain its working.	CO2	5M
	b.	Build a 1:4 DEMUX and Explain its working.	CO2	5M
4.	a.	Explain Arithmetic Subtraction with example.	CO1	4M

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