

Model Question Paper- I with effect from 2022

CBCS SCHEME

Third Semester B.E Degree Examination_____

Digital Design and Computer Organization (BCS302)

TIME: 03 Hours

Max.Marks:100

1. Note: Answer any FIVE full questions, choosing at least ONE question from each MODULE.
2. M: Marks, L: Bloom's level, C: Course outcomes.

	Module - 1		M	L	C
Q.1	a	Demonstrate the positive and negative logic using AND gate	5	L1	CO1
	b	Find the POS expression for $F(a,b,c,d) = \Pi(2,3,5,8,10,13,14) + d(1,6,7,11)$ and realize it using NOR gates.	5	L3	CO1
	c	Simplify the Boolean function, $F(w,x,y,z) = \sum(0,1,2,4,6,7,9,12,14)$ using k-map and Write the Verilog Program for realizing the minimized expression.	10	L3	CO1
	OR				
Q.2	a	What is Binary logic? List out any 4 Laws of Logic.	5	L1	CO1
	b	Simplify the following Boolean function and find its SOP: i) $F(x,y,z) = \sum(0,1,4,5,6) + d(2,3,7)$ ii) $F(w,x,y,z) = \sum(5,6,7,12,14,15) + d(13,9,11)$	10	L3	CO1
	c	Write a short note on Hardware Description Language.	5	L1	CO1
	Module - 2				
Q.3	a	Explain the differences between Combinational and Sequential Circuits with their block diagrams and examples.	5	L3	CO2
	b	What are decoders? Implement the following Boolean functions with a decoder: $F1(A,B,C) = \sum m(1, 3,4,7)$, $F2(A,B,C) = \sum m(0,2,3,6)$ and $F3(A,B,C) = \sum m(2,3,6,7)$	5	L3	CO2
	c	What are Multiplexers? Implement the Boolean function $F(A,B,C,D) = \sum m(1,3,4,11,12,13,14,15)$ with a 8:1 MUX.	10	L3	CO2
	OR				
Q.4	a	Define Encoder. Design a Four-input Priority Encoder.	5	L3	CO2
	b	Write the Verilog program to Implement Full Adder and Subtractor Circuits.	5	L3	CO2
	c	Write the Characteristic Table and Equations of SR, JK, D and T Flip Flops.	10	L1	CO2
	Module - 3				

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