

COMPUTER ORGANIZATION AND ARCHITECTURE

Maximum: 75 Marks

Answer ALL questions

$$(10 \times 1 = 10)$$

Cont...

SECTION - B (35 Marks)
 Answer **ALL** questions
ALL questions carry **EQUAL** Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Explain about Fixed Point & Float Point Number Conversions.	K2	CO1
	(OR)			
	11.b.	Summarize about Digital Computers and Digital Systems.		
2	12.a.	Simplify the Boolean function that has the don't-care conditions $F(w, x, y, z) = \Sigma (1, 3, 7, 11, 15)$ $d(w, x, y, z) = \Sigma (0, 2, 5)$.	K4	CO2
	(OR)			
	12.b.	Examine the Boolean function $F = A + B'C$ and express it in a sum of minterms.		
3	13.a.	Construct the Full Adder and Half Adder Circuit.	K3	CO3
	(OR)			
	13.b.	Illustrate the concept of i) Encoder ii) Demultiplexer		
4	14.a.	Summarize Input Output and Interrupts.	K2	CO4
	(OR)			
	14.b.	Explain the Basic Computer Instructions.		
5	15.a.	Discuss on Stack Organization.	K6	CO5
	(OR)			
	15.b.	Elaborate on the Arithmetic and Logic Micro Operations with a circuit.		

SECTION - C (30 Marks)
 Answer **ANY THREE** questions
ALL questions carry **EQUAL** Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Convert the Following i) Decimal 63 to Binary. ii) Decimal 328 to Octal. iii) (0.513) ₁₀ to Octal. iv) (0.6875) ₁₀ to Binary.	K2	CO1
2	17	Analyse the Concept of Basic Definition and Axiomatic Definition of Boolean Algebra.	K4	CO2
3	18	Construct and explain the types of Multiplexers.	K3	CO3
4	19	Expound on Computer Registers.	K5	CO4
5	20	Discuss about Instruction Formats with example.	K6	CO5

Z-Z-Z

END