

BANGALORE INSTITUTE OF TECHNOLOGY
K R ROAD, V V PURA, BENGALURU-04
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
I Internals - 2024-25 (Odd)

BATCH: 2023

SEM: 3rd

MAX MARKS: 30

COURSE (CODE):

DATE & TIME: 07/10/2024 ,3:30PM to 4:30PM

USN:

Note: Answer any one full question from each PART

Q. No.	PART A (Module – I, III)	15M	CO's	PO's	Blooms Levels
1.a)	Question number 1, form part A.	5	1	1,2,3	3
1.b)	This is question from part A.	6	1	1,2,3	3
1.c)	With neat diagram explain basic operational concepts of computer.	4	3	1,2	2
	OR				
2.a)	What is Database?	5	1	1,2,3	3
2.b)	Explain the following with respect to performance. i) Processor Clock ii) Basic Performance Equation	5	3	1,2,3	2
2.c)	This is Testing, Question?	5	2	1,2,3,5	3
	PART B (Module –I, III)	10M			
3.a)	Define Bus? Discuss about Bus Architecture with neat diagram.	5	1	3	3
3.b)	Implement the Boolean function with OR and INVERTER gates only. $F(M,N,O) = (M+N) \cdot (M'+N') \cdot (N'+O)$	5	1	3	3
3.c)	List all Postulates available in Boolean algebra?	5	1	1,2,3	3
	OR				
4.a)	Explain OR gate.	5	1	1,2	3
4.b)	Write the VHDL program for Full Subtractor.	5	1	1,2,5	3
4.c)	Explain the overall SPEC rating for the computer in program suit.	5	3	1	2