Sr... H.T No ...gy

(An Autonomous Institution)

Regulations: A22

Code No:9CC54 **Date: 20-August-2024 (FN)**

B.Tech II-Year II- Semester External Examination, August-2024 (Regular)

COMPUTER ORGANIZATION (CSE and IT)

Time: 3 Hours **Max.Marks:60**

Note: *a) No additional answer sheets will be provided.*
b) All sub-parts of a question must be answered at one place only, otherwise it will not be valued.
c) Missing data can be assumed suitably.

Bloom's Cognitive Levels of Learning (BCLL)

Remember	L1	Apply	L3	Evaluate	L5
Understand	L2	Analyze	L4	Create	L6

Part - A Max.Marks: 6x2=12

ANSWER ALL QUESTIONS, EACH QUESTION CARRIES 2 MARKS.

		BCLL	CO(s)	Marks
1	Explain about the Bus structure.	L6	CO1	[2M]
2	Define register transfer language.	L1	CO2	[2M]
3	Discuss about control memory.	L2	CO3	[2M]
4	Define microprocessor.	L1	CO4	[2M]
5	Define Macro.	L1	CO5	[2M]
6	Define interrupt service routine.	L1	CO6	[2M]

Part – B Max.Marks: 6x8=48

ANSWER ALL QUESTIONS. EACH QUESTION CARRIES 8 MARKS.

		BCLL	CO(s)	Marks
7.	Discuss the functional units of a digital computer and show their interconnections.	L2	CO1	[8M]
	OR			
8	State the floating point representation. Explain the IEEE standards for floating point representation with example.	L1	CO1	[8M]
9.	Explain various shift micro operations.	L6	CO2	[8M]
	OR			
10	Draw and explain the flow chart for memory reference instructions.	L1	CO2	[8M]
11	Explain how the address sequencing in micro programmed control unit.	L1	CO3	[8M]
	OR			
12	Explain the flow chart for addition operation with sign-magnitude data.	L6	CO3	[8M]
13	Define Flag. Explain the different Flags present in 8086 processor along with Flag register.	L1	CO4	[8M]
	OR			
14	Define addressing mode and explain the different addressing modes presented in 8086 Microprocessor with examples.	L1	CO4	[8M]
15	Discuss various Assembler directives available in 8086 programming.	L2	CO5	[8M]
	OR			
16	Write an 8086 program to add two 16 bit numbers in CX and DX and store the result in location 0500H addressed by DL.	L1	CO5	[8M]
17	Draw and explain each signal function of 8086.	L1	CO6	[8M]
	OR			
18	Explain the architecture of 8255 PPI.	L6	CO6	[8M]

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