



(An Autonomous Institution)

Regulations: A18

Code No: 7D408

B.Tech II-Year II- Semester External Examination, Aug/Sept-2021 (Regular)

COMPUTER ORGANIZATION (CSE and IT)

Time: 3 Hours Max.Marks:70

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.

ANSWER ANY 5 OUT OF 8 QUESTIONS. EACH QUESTION CARRIES 14 MARKS.

Bloom's Cognitive Levels of Learning (BCLL)

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

			BC LL	CO(s)	Marks
1.	a)	Describe Fixed point number representation.	L1	CO1	[7M]
	b)	Write a short on System software.	L1	CO1	[7M]
2.	a)	Explain the Arithmetic micro operations with suitable examples.	L3	CO2	[7M]
	b)	Write a short notes on shift micro operations.	L2	CO2	[7M]
3.	a)	Explain the flow chart of Booth's algorithm with neat a sketch.	L2	CO3	[7M]
	b)	Multiply 100111 with 11011 using Booth's algorithm.	L3	CO3	[7M]
4.	a)	Explain the architecture of 8086 micro processor with a neat diagram.	L2	CO4	[7M]
	b)	Discuss the addressing modes of 8086.	L3	CO4	[7M]
5.	a)	Describe the following assembler directives of 8086 micro processor. i) ASSUME ii) EQA iii) OFFSET	L1	CO5	[7M]
	b)	Prepare an 8086 assembly language program to convert binary number to BCD number.	L6	CO5	[7M]
6.	a)	Draw and explain read/write cycle timing diagram of 8086 in minimum mode.	L4	CO6	[7M]
	b)	Explain the modes of operations of 8255 PPI.	L3	CO6	[7M]
7.	a)	Draw the connections between processor and memory.	L1	CO1	[4M]
	b)	Write in brief about stack organization.	L2	CO2	[5M]
	c)	Explain about micro-programmed control.	L2	CO3	[5M]
8.	a)	Write the structure of 8086 flag register and explain.	L3	CO4	[5M]
	b)	,			[5M]
	c)	Write short notes on vector interrupt table.	L2	CO6	[4M]