

PRN No.

PAPER CODE

U225-2103(FSE)

(AY:2024-25) May 2025 (ENDSEM) EXAM
SY (SEMESTER - II)

COURSE NAME: Computer Organization Branch: Information Technology COURSE CODE: IT2223

SY (Pattern 2023)

Time: [1Hr 30 Min]

[Max. Marks: 40]

Instructions to candidates:

- 1) **Figures to the right indicate full marks. Use of scientific calculator is allowed**
- 2) **Use suitable data wherever required**
- 3) **All questions are compulsory. Solve any two sub question each from Questions 1 , 2 ,3 and 4**

Q. No.	Question Description	Max. Marks	CO mapped	BT Level
Q.1	a) Explain the importance of functional unit. Discuss the parts of functional unit.	[5]	1	2
	b) Discuss the John Von Neumann. architecture with block diagram.	[5]	1	2
	c) Compare the multiprocessor with the multicomputer.	[5]	1	3
Q2	a) Explain the types of instruction format with example.	[5]	2	2
	b) Discuss the addressing format with example.	[5]	2	2
	c) Solve the multiplication of $2 * 3$ using booths multiplication algorithm .	[5]	2	3
Q3	a) Explain the memory hierarchy with diagram.	[5]	3	2
	b) Compare the Static Random Access Memory Vs Dynamic Random Access Memory.	[5]	3	2
	c) Discuss the cache write policies with diagram	[5]	3	3
Q4	a) Explain the programmed Input/Output with the block diagram.	[5]	4	2
	b) Discuss the various operations in the Direct Memory Access to use the DMA controller for Input-output execution	[5]	4	2
	c) Analyze the working of input -output processor compared to Central processing unit.	[5]	4	4

BT Level:- 1: Remember,2:Understand,3:Apply,4:Analyze,5:Evaluate,6:Create

