



MID TERM EXAMINATIONS- March 2025			
Programme	: B.Tech	Semester	: Winter Semester 2024-25
Course	: Computer Architecture and Organization	Code	: CSE2003
Date / Session	: 04 March 2025, Session I	Slot	: A14+D11+D12
Time	: 1½ hours	Max. Marks	: 50

Answer all the Questions

Q.No.	Question Description	Marks
1	Discuss the following addressing modes with example: i. Immediate Addressing Mode ii. Direct Memory Addressing Mode iii. Indirect Memory Addressing Mode iv. Direct Register Addressing Mode v. Indirect Register Addressing Mode	10
2	Illustrate the Von Neumann Machine and Harvard Architecture. Also, differentiate the Von Neumann Machine and Harvard Architecture.	10
3	Perform the conversions for the following numbers: i. $(56.7)_8 \rightarrow ()_2$ ii. $(EF.45)_{16} \rightarrow ()_{10}$ iii. $(21.58)_{10} \rightarrow ()_2$ iv. $(11011.1010)_2 \rightarrow ()_{10}$ v. $(CA.3B)_{16} \rightarrow ()_8$	10
4	Apply Booth multiplication method to multiply given numbers. Mention the flowchart. Multiplicand = (-7) Multiplier = (-5)	10
5	Discuss the memory hierarchy in terms of cost per bit and access time. Compare SRAM and DRAM.	10

