

MSc (SS) DEGREE EXAMINATION MAY 2026
(First Semester)

Branch- **SOFTWARE SYSTEMS(Five Years Integrated)**

COMPUTER ORGANIZATION AND ARCHITECTURE

Time: Three Hours

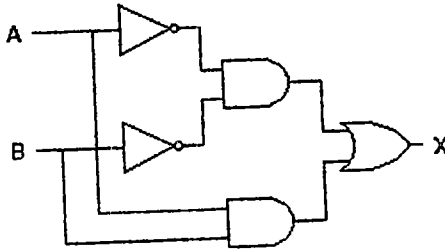
Maximum: 75 Marks

SECTION-A (10 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Any Signed Negative Binary Number is recognized by its _____. i) MSB ii) LSB iii) -ve Sign iv) +ve Sign	K1	CO1
	2	The following Hexadecimal Number (1E.43) ₁₆ is equivalent to _____. i) (36.506) ₈ ii) (36.206) ₈ iii) (35.506) ₈ iv) (35.206) ₈	K2	CO1
2	3	Simplified Expression/s for the following Boolean Function $F(A,B,C,D) = \sum(0,1,2,3,6,12,13,14,15)$ is/are: (A) $A'B' + AB + A'C'D'$ (B) $A'B' + AB + A'CD'$ (C) $A'B' + AB + BC'D'$ (D) $A'B' + AB + BCD'$ i) A Only ii) B Only iii) A and C iv) B and D	K1	CO2
	4	Which of the following Logic Expressions represents the Logic Diagram?  i) $X = (AB)' + A'B'$ ii) $X = (AB)' + AB$ iii) $X = AB' + A'B$ iv) $X = A'B' + AB$	K2	CO2
3	5	In Reverse Polish Notation, expression $A*B+C*D$ is written as _____. i) $AB*CD*+$ ii) $*BCD*+$ iii) $AB*CD+*$ iv) $*B*CD+$	K1	CO3
	6	A group of bits that tell the computer to perform a specific operation is known as _____. i) Instruction Code ii) Micro-Operation iii) Accumulator iv) Register	K2	CO3
4	7	Which of the following is lowest in memory hierarchy? i) Cache Memory ii) Secondary Memory iii) Registers iv) RAM	K1	CO4
	8	A Stack-Organized Computer uses instruction of _____. i) Indirect ii) Two iii) Zero iv) Index	K2	CO4
5	9	An interface that provides I/O transfer of data directly to and from the memory unit and peripheral is termed as _____. i) DDA ii) DR iii) BR iv) DMA	K1	CO5

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