9 Lecture - CS302

Important Mcqs

1.	What is the complement of the Boolean expression A + B? A. A + B B. AB C. A' + B' D. AB'
Solution: C	
2.	What is the output of the AND gate when both inputs are 1? A. 0 B. 1 C. Undefined D. Can't be determined
Solution: B	
	Which of the following laws of Boolean algebra is used to simplify the expression A(B+C)? A. Associative law B. Commutative law C. Distributive law D. DeMorgan's law
4.	What is the output of the XOR gate when both inputs are 1? A. 0 B. 1 C. Undefined D. Can't be determined
Solution: A	
5.	What is the complement of the Boolean expression AB + C? A. AB' + C' B. A' + B' + C' C. A + B' + C D. AB' + C

Solution: B

6. Which of the following is a simplification technique used for Boolean expressions?

A. Truth table

- B. Logic gate
 C. Karnaugh map
 D. Flip-flop

 Solution: C
- 7. What is the output of the OR gate when both inputs are 0?
 - A. 0
 - B. 1
 - C. Undefined
 - D. Can't be determined

Solution: A

- 8. Which of the following is NOT a logical operator in Boolean algebra?
 - A. AND
 - B. OR
 - C. XOR
 - D. NOT

Solution: C

- 9. Which of the following is a property of DeMorgan's law?
 - A. A + 0 = A
 - B. A + A' = 0
 - C. A(B+C) = AB + AC
 - D. $(A+B)' = A' \cdot B'$

Solution: B

- 10. What is the output of the NAND gate when both inputs are 0?
 - A. 0
 - B. 1
 - C. Undefined
 - D. Can't be determined

Solution: B