

Computer Science (083)  
Pre-Mid Term Exam (2021-2022)  
Model Questions  
Class : XI

Chapter : 2 – Number System and Logic gates:

Q.1. Perform following number system conversion :

(i)  $(78)_8 = ( )_{16}$  ,    (ii)  $(101101)_2 = ( )_{16}$ ,    (iii)  $(111011)_2 = ( )_8$ ,    (iv)  $(8A9F)_{16} = ( )_8$ ,    (v)  $(57)_8 = ( )_{16}$   
(vi)  $(57)_{10} = ( )_2$     (vi)  $(85)_{10} = ( )_8$     (vii)  $(72)_8 = ( )_{10}$

Q.2. Describe AND logic gate with proper diagram, truth table and Boolean equation.

Q.3. What is NOT gate? What it does?

Q.4. Which logic gates are called Universal gates?

Q.5. Describe NAND logic gate with proper diagram, truth table and Boolean equation.

Q.6. Which logic gates are called Exclusive Logic Gate?

Q.7. Describe XOR logic gate with proper diagram, truth table and Boolean equation.

Q.8. What is EBCDIC coding system?

Q.9. What is ASCII coding system?

Q.10. What is UNICODE coding system?