

LOGIC GATES

One mark questions

1. What is a logic gate ?(June 2015)
2. Mention the three basic logic gates?
3. Which basic gate is named as inverter?(March 2015)
4. Which are the three logic operations ?
5. Write a standard symbol for AND gate.(March 2017)
6. Write the truth table for AND gate.
7. Write the logic circuit for AND gate.
8. Write a standard symbol for OR gate.(June 2016)
9. Write the truth table for OR gate.
10. Write the logic circuit for OR gate.
11. Write a standard symbol for NOT gate.
12. Write the truth table for NOT gate.
13. Write the logic circuit for NOT gate.
14. What is a truth table ?
15. What is meant by Universal gates?
16. Mention different Universal gates.
17. What is the output of two input NAND gate for the inputs A=0,B=1?
18. What are the values of the inputs to a three input NAND gate,if its output is 1?
19. What are the values of the inputs to a three input NAND gate,if its output is 0?
20. What is the output of two input OR gate for the inputs A=0,B=0?
21. What are the values of the inputs to a three input OR gate,if its output is 0?
22. What are the values of the inputs to a three input OR gate,if its output is 1?
23. Write the standard symbol of XOR gate.(March 2016).
24. For the truth table given below,What type of logic gate does the output F represent?(June 2017).

A	B	F
0	0	1
0	1	
1	0	1
1	1	0

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Three marks questions

1. Write the truth table and standard symbol of AND gate.
2. Write the truth table and standard symbol of OR gate.
3. Write the truth table and standard symbol of NOT gate.
4. Write the truth table and standard symbol of NAND gate. **(June 2015)**
5. Write the truth table and standard symbol of NOR gate. **(March 2015, June 2017)**
6. Draw the logic gate diagram to implement AND and OR gates using NAND gates Only.
7. Draw the logic gate diagram to implement AND and OR gates using NOR gates Only.
8. Draw the logic gate diagram to implement NOT gate using
 - a) only NOR gates
 - b) only NAND gates.
9. Write the truth table and standard symbol of XOR gate. **(March, June 2016)**
10. Write the truth table and standard symbol of XNOR gate.

1mark	2marks	3marks	5marks	Total Marks
1	-	1	-	04