

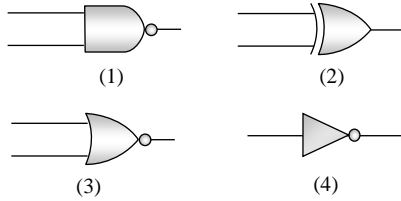
SUBJECT :

TOPIC:

TIME:

DATE:

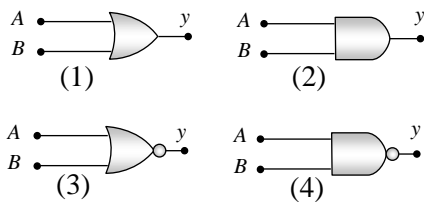
1. Given below are symbols for some logic gates



The XOR gate and NOR gate respectively are

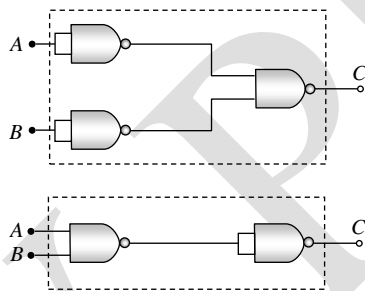
- (a) 1 and 2 (b) 2 and 3
(c) 3 and 4 (d) 1 and 4

2. Given below are four logic gate symbol (figure). Those for OR, NOR and NAND are respectively



- (a) 1, 4, 3 (b) 4, 1, 2
(c) 1, 3, 4 (d) 4, 2, 1

3. The combination of 'NAND' gates shown here under (figure) are equivalent to



- (a) An OR gate and an AND gate respectively
(b) An AND gate and a NOT gate respectively
(c) An AND gate and an OR gate respectively
(d) An OR gate and a NOT gate respectively.

4. A truth table is given below. Which of the following has this type of truth table

A	0	1	0	1
B	0	0	1	1
y	1	0	0	0

- (a) XOR gate (b) NOR gate
(c) AND gate (d) OR gate

5. The truth table shown in figure is for

A	0	0	1	1
B	0	1	0	1
Y	1	0	0	1

- (a) XOR (b) AND
(c) XNOR (d) OR

6. The logic behind 'NOR' gate is that it gives

- (a) High output when both the inputs are low
(b) Low output when both the inputs are low
(c) High output when both the inputs are high
(d) None of these

7. A logic gate is an electronic circuit which

- (a) Makes logic decisions
(b) Allows electrons flow only in one direction
(c) Works binary algebra
(d) Alternates between 0 and 1 values

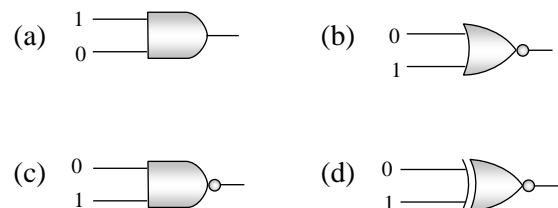
8. A gate has the following truth table

P	1	1	0	0
Q	1	0	1	0
R	1	0	0	0

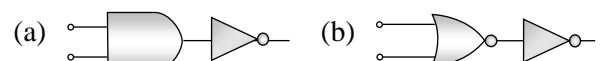
The gate is

- (a) NOR (b) OR
(c) NAND (d) AND

9. Which of the following gates will have an output of 1



10. Which represents NAND gate

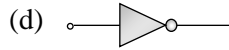
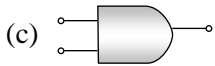


SUBJECT :

TOPIC:

TIME:

DATE:



11. The given truth table is of

A	X
0	1
1	0

- (a) OR gate (b) AND gate
(c) NOT gate (d) None of above

12. If A and B are two inputs in AND gate, then AND gate has an output of 1 when the values of A and B are

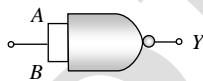
- (a) $A = 0, B = 0$ (b) $A = 1, B = 1$
(c) $A = 1, B = 0$ (d) $A = 0, B = 1$

13. The Boolean equation of NOR gate is

- (a) $C = A + B$ (b) $C = \overline{A + B}$
(c) $C = A \cdot B$ (d) $C = \overline{A \cdot B}$

14. This symbol represents

- (a) NOT gate
(b) OR gate
(c) AND gate
(d) NOR gate



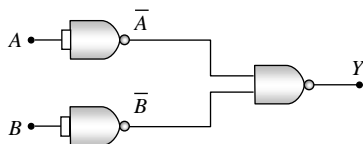
15. Which logic gate is represented by following diagram

- (a) AND
(b) OR
(c) NOR
(d) XOR



16. The combination of the gates shown in the figure below produces

- (a) NOR gate
(b) OR gate
(c) AND gate
(d) XOR gate



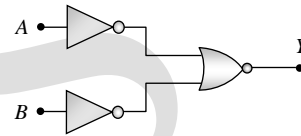
17. The output of a NAND gate is 0

- (a) If both inputs are 0
(b) If one input is 0 and the other input is 1
(c) If both inputs are 1
(d) Either if both inputs are 1 or if one of the inputs is 1 and the other 0

18. A gate in which all the inputs must be low to get a high output is called

- (a) A NAND gate (b) An inverter
(c) A NOR gate (d) An AND gate

19. Which logic gate is represented by the following combination of logic gates



- (a) OR (b) NAND
(c) AND (d) NOR

20. Which gates is represented by this figure

- (a) NAND gate
(b) AND gate
(c) NOT gate
(d) OR gate

