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	Quarterly Exam	Half Yearly Exam	Public Exam	NEET		

11th Standard	Syllabus	Books	Study Materials – EM	Study Materials - TM	Practical	Online Test (EM & TM)
	Monthly Q&A	Mid Term Q&A	Revision Q&A	Centum Questions	Creative Questions	
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10th Standard	Syllabus	Books	Study Materials – EM	Study Materials - TM	Practical	Online Test (EM & TM)
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9th Standard	Syllabus	Books	Study Materials	1st Mid Term	2nd Mid Term	3rd Mid Term
	Quarterly Exam	Half Yearly Exam	Annual Exam	RTE		

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	Term 1	Term 2	Term 3	Public Model Q&A	NMMS	Periodical Test

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	Term 1	Term 2	Term 3	Periodical Test	SLAS	

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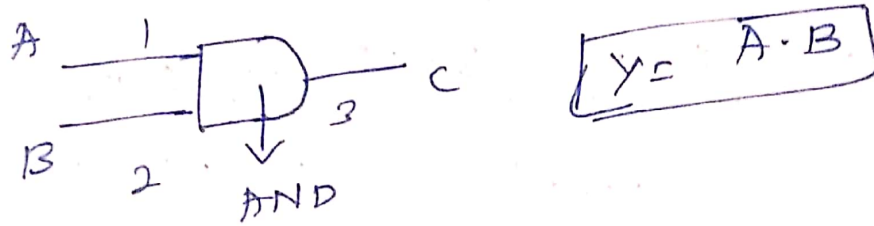


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XI- பண்பை அறிவதில்
தரவரை உயர்க்கணம்

①

① AND தரவரை எது:-



தரவரை அட்டவணை:-

A	B	$Y = A \cdot B$
0	0	0
0	1	0
1	0	0
1	1	1

பண்பை எது:- $Y = A \cdot B$

(i) $A = 0$ $B = 0$ $Y = A \cdot B$
 $Y = 0 \cdot 0 = 0$

$Y = 0$

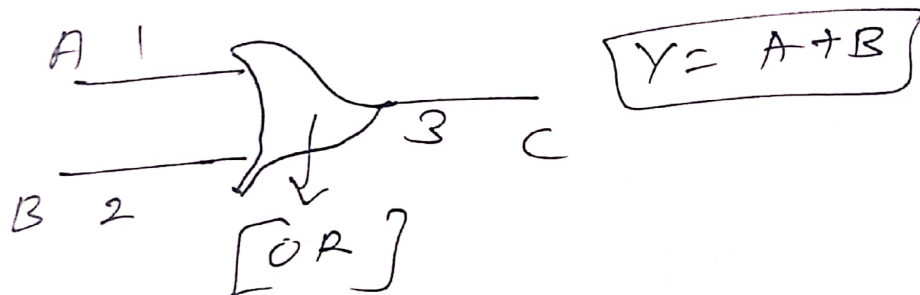
(ii) $A = 0$ $B = 1$ $Y = A \cdot B$
 $Y = 0 \cdot 1$
 $Y = 0$

$Y = 0$

(iii) $A = 1, B = 0$
 $Y = A \cdot B = 1 \cdot 0 = 0$
 $Y = 0$

(iv) $A = 1, B = 1$ $Y = A \cdot B$
 $Y = 1 \cdot 1 = 1$
 $Y = 1$

② OR gate :- (வெ.)
 $Y = A + B$



தருகிற அட்டைகளை:-

A	B	$Y = A + B$
0	0	0
0	1	1
1	0	1
1	1	1

(3)

கூடுதல் கேள்வி:-

$$Y = A + B$$

$$(i) \quad A = 0, \quad B = 0 \quad Y = 0 + 0 = 0$$

$$Y = 0$$

$$(ii) \quad A = 0, \quad B = 1 \quad Y = 0 + 1 = 1$$

$$Y = 1$$

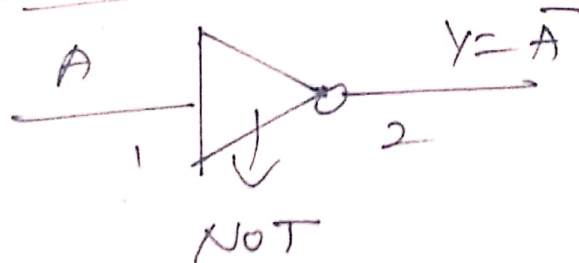
$$(iii) \quad A = 1, \quad B = 0 \quad Y = 1 + 0 = 1$$

$$Y = 1$$

$$(iv) \quad A = 1, \quad B = 1, \quad Y = 1 + 1 = 1$$

$$Y = 1$$

(3)

NOT கேள்வி:-

கூடுதல் கேள்வி:-

A	$Y = \bar{A}$
1	0
0	1

கோடுகளை: -

$$A=0$$

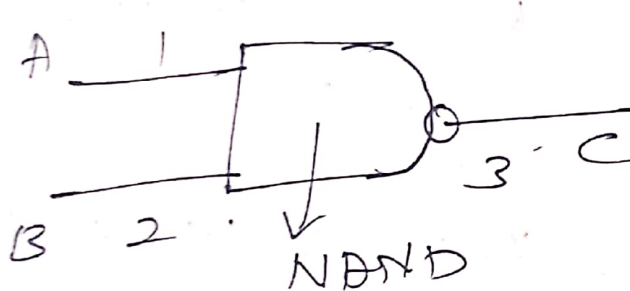
$$(i) Y = \bar{A} = \bar{0} = 1$$

$$(ii) Y = \bar{A} = \bar{1} = 0$$

(4)

NAND GATE:-

$$Y = \overline{A \cdot B}$$



$$Y = \overline{A \cdot B}$$

Truth Table:-

A	B	$Y = \overline{A \cdot B}$
0	0	1
0	1	1
1	0	1
1	1	0

கோடுகள்:

$$Y = \overline{A \cdot B}$$

(i) $A = 0, B = 0$

$$Y = \overline{A \cdot B} = \overline{0 \cdot 0} = \overline{0}$$

$$Y = \overline{0} = 1$$

(ii) $A = 0, B = 1$

$$Y = \overline{A \cdot B} = \overline{0 \cdot 1} = \overline{0}$$

$$Y = \overline{0} = 1$$

(iii) $A = 1, B = 0$

$$Y = \overline{A \cdot B} = \overline{1 \cdot 0} = \overline{0}$$

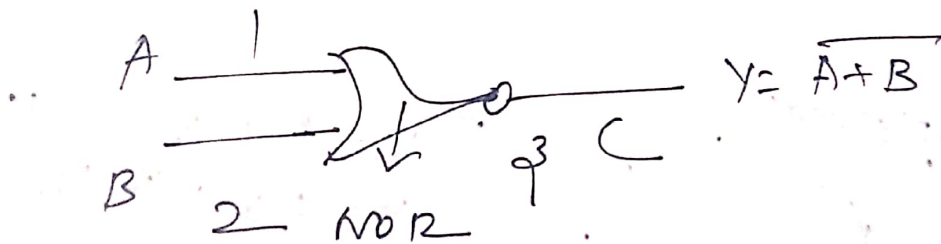
$$Y = \overline{0} = 1$$

(iv) $A = 1, B = 1$

$$Y = \overline{A \cdot B} = \overline{1 \cdot 1} = \overline{1}$$

$$Y = 0$$

⑤ NOR கை



பின் குறியீடு

A	B	$Y = \overline{A + B}$
0	0	1
0	1	0
1	0	0
1	1	0

For OR Gate :-

$$Y = A + B$$

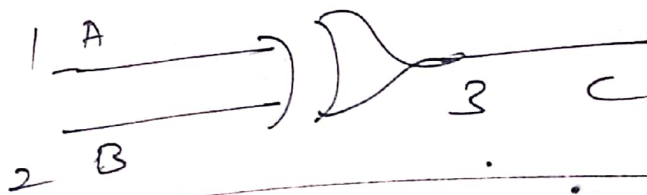
(i) $A=0, B=0 \quad Y = 0+0 = 0 = 1$

(ii) $A=0, B=1 \quad Y = 0+1 = 1 = 0$

(iii) $A=1, B=0 \quad Y = 1+0 = 1 = 0$

(iv) $A=1, B=1 \quad Y = 1+1 = 1 = 0$

⑥. EXOR GATE :-



$$Y = \text{EXOR}$$

$$Y = A \oplus B$$

$$Y = A \oplus B = A\bar{B} + \bar{A}B$$

Truth Table :-

A	B	Y = A ⊕ B Y = A $\bar{B}$ + $\bar{A}$ B
0	0	0
0	1	1
1	0	1
1	1	0

கூடுதல் கேள்வி.

$$Y = A\bar{B} + \bar{A}B$$

(i) $A=0$ $B=0$

$$Y = 0\bar{0} + \bar{0}0$$

$$Y = 01 + 10$$

$$Y = 0 + 0 = 0$$

(ii) $A=0$ $B=1$

$$Y = 0\bar{1} + \bar{0}1$$

$$Y = 00 + 1.1$$

$$Y = 0 + 1 = 1$$

(iii) $A=1$ $B=0$

$$Y = 1\bar{0} + \bar{1}0$$

$$Y = 1.1 + 0.0$$

$$Y = 1 + 0 = 1$$

(iv) $A=1$ $B=1$

$$Y = 1\bar{1} + \bar{1}1$$

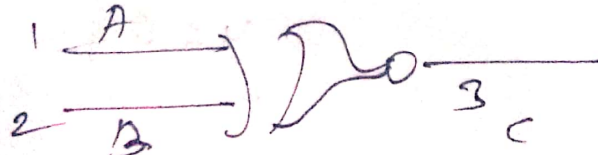
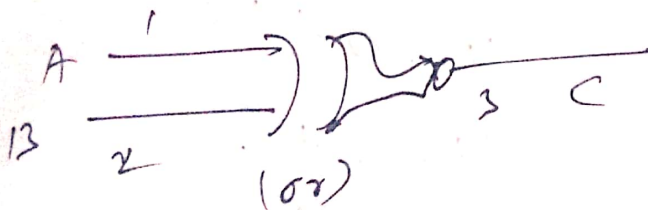
$$Y = 10 + 01$$

$$Y = 0 + 0$$

$$Y = 0$$

7

Ex-NOR gate :-



$$Y = A \oplus B$$

$$Y = AB + \bar{A}\bar{B}$$

(8)

Q69 அகலக்காரம்

A	B	$Y = A \odot B$ $Y = AB + \bar{A}\bar{B}$
0	0	1
0	1	0
1	0	0
1	1	1

From the table:

(i) $A=0, B=0$

$$Y = A \odot B = AB + \bar{A}\bar{B}$$

$$Y = 00 + \bar{0}\bar{0}$$

$$Y = 0 + 11$$

$$Y = 0 + 1$$

$$Y = 1$$

(ii) $A=0, B=1$

$$Y = A \odot B = AB + \bar{A}\bar{B}$$

$$Y = 01 + \bar{0}\bar{1}$$

$$Y = 0 + 10$$

$$Y = 0 + 0$$

$$Y = 0$$

$$(iii) A=1, B=0$$

$$Y = A \odot B = AB + \overline{A}\overline{B}$$

$$Y = 1 \cdot 0 + \overline{1} \cdot \overline{0}$$

$$Y = 0 + 0 \cdot 1$$

$$Y = 0 + 0$$

$$\boxed{Y=0}$$

$$(iv) A=1, B=1$$

$$Y = A \odot B = AB + \overline{A}\overline{B}$$

$$Y = 1 \cdot 1 + \overline{1} \cdot \overline{1}$$

$$Y = 1 + 0 \cdot 0$$

$$Y = 1 + 0$$

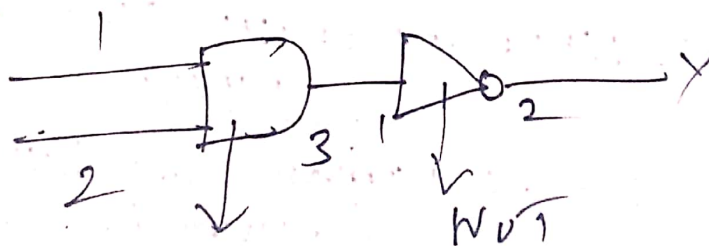
$$\boxed{Y=1}$$

8



பொருள்.

பொருள்:



$$Y = \overline{A \cdot B}$$

AND

$$Y = A \cdot B \rightarrow \overline{A \cdot B}$$

பொருள்!

A	B	$Y = A \cdot B$
0	0	1
0	1	1
1	0	1
1	1	0

செய்தி:

- (i) $A=0, B=0$
 (ii) $A=0, B=1$
 (iii) $A=1, B=0$
 (iv) $A=1, B=1$

$$Y = \overline{A \cdot B} = \overline{0 \cdot 0} = \overline{0} = 1$$

$$Y = \overline{A \cdot B} = \overline{0 \cdot 1} = \overline{0} = 1$$

$$Y = \overline{A \cdot B} = \overline{1 \cdot 0} = \overline{0} = 1$$

$$Y = \overline{A \cdot B} = \overline{1 \cdot 1} = \overline{1} = 0$$

prepared by

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