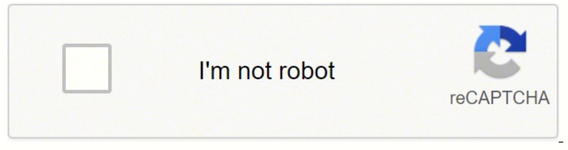

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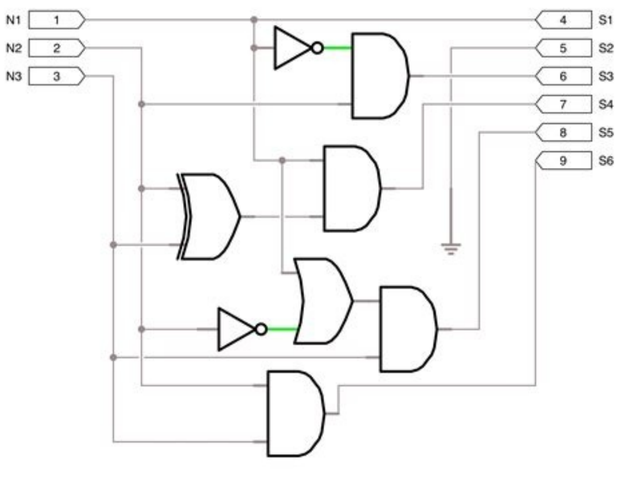

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And if 0 is applied to anode and 1 to cathode Diode acts as open circuit i.e. OFF. The logic gates which are derived from the basic gates like AND, OR, NOT gates are known as derived gates. Case 4 When A is logic 1 and B is logic 1 Then the logic of C will be 1. The figure below shows the IEEE/ANSI symbols alongside the traditional symbols for the basic gates: India’s #1 Learning Platform Start Complete Exam Preparation Daily Live MasterClasses Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,71,73,167+ Students XOR GATE Symbol: Truth Table: Input A Input B Output Y = A ⊕ B 0 0 0 0 0 1 1 1 0 1 1 1 0 Output Equation: \(Y = {\bf{A}} \oplus {\bf{B}} = \bar AB + A\bar B\) Key Points: 1) The output is low or '0' when both the inputs are the same. OR Gate NOT Gate AND Gate NAND Gate Ans. All gates have buffered outputs. 2 Q12. The output will be a LOW for any case when one or more inputs are zero in a/an ..... OR Gate NOT Gate AND Gate NAND Gate Ans. OR gate AND gate NOT gate None of the above Ans. 3 Q14. The logic gate that will have HIGH or “1” at its output when any one of its inputs is HIGH is a/an ..... gate. Note: 74 LS 32 → Quad 2-Input OR Gate 74 HC 00 → Quad 2-Input NAND Gate 74 HC 86 → Quad 2-Input EXOR Gate 74 HC 08 → Quad 2-Input AND Gate India’s #1 Learning Platform Start Complete Exam Preparation Daily Live MasterClasses Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,71,73,167+ Students Concept: OR GATE Symbol: Truth Table: Input A Input B Output Y = A + B 0 0 0 0 0 1 1 1 0 1 1 1 1 Output Equation: Y = A + B Key Points: The output is low only when both the inputs are low Calculation: The given Logic Gate represents the OR Gate. 3 Q16. Exclusive-OR (XOR) logic gates can be constructed from .....logic gates. Case 2 When A is logic 0 and B is logic 1 Then the logic of C will be 1. 3 Q17. ..... 3) It is also called stair case switch. ..... NAND and NOR gates are universal gates. The figure below shows the IEEE/ANSI symbols alongside the traditional symbols for the basic gates: India’s #1 Learning Platform Start Complete Exam Preparation Daily Live MasterClasses Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,71,73,167+ Students Answer (Detailed Solution Below) 8 B = X0 . Calculation: Given Boolean expression is, F = AB + AC̄ + BC = A B C̄ + A B C + A B̄ C + A B C̄ + A B C + Ā B C \(= \sum \left({{m_6},\;{m_7},\;{m_4},\;{m_6},\;{m_7},\;{m_3}} \right)\) \(= \sum \left({{m_3},\;{m_4},\;{m_6},\;{m_7}} \right)\) F = BC + AC̄ India’s #1 Learning Platform Start Complete Exam Preparation Daily Live MasterClasses Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,71,73,167+ Students Concept: Name of Law AND Law OR Law Identity Law 1 • A = A 0 + A = A Null Law 0 • A = 0 1 + A = 1 Inverse Law A • A = A A + A = A Idempotent Law A • A’ = 0 A + A’ = 1 Associative Law A • B = B • A A + B = B + A Distributive Law (A • B) C = A (B • C) (A + B) + C = A + (B + C) Absorption Law A (A + B) = A A + A • B = A De Morgan Law (A • B)’ = A’ + B’ (A + B)’ = A’ • B’ Calculation: Given, F = A B + AB'C + AB'C' F = AB + AB’ (C + C’) F = AB + AB’ F = A (B + B’) F = A Hence, '0' gate is required for that expression India’s #1 Learning Platform Start Complete Exam Preparation Daily Live MasterClasses Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,71,73,167+ Students NAND and NOR gatesNOT Gates and EX-OR GatesAND Gates and NOT GatesOR Gates and EX-OR Gates Option 1 : NAND and NOR gates AND, OR, NOT gates are the basic gates. 1 Q6. Digital circuit can be made by the repeated use of ..... OR gates NOT gates NAND gates None of the above Ans. 5) 4 NAND & 5 NOR logic gates required for realization of XOR gate . 4 Q18. A NAND gate has ..... T = 2n Tpd Here 2 is multiplied with the propagation delay when logic gates are connected in feedback. 3 XOR GATE Symbol: Truth Table: Input A Input B Output Y = A ⊕ B 0 0 0 0 0 1 1 1 0 1 1 1 0 Output Equation: \(Y = {\bf{A}} \oplus {\bf{B}} = \bar AB + A\bar B\) Key Points: 1) If B is always High, the output is the inverted value of the other input A, i.e. Ā. 1 To get output as 1, we need anyone of the Diode to be forward biased. 1) The output is low when both the inputs are different. Case 3 When A is logic 1 and B is logic 0 Then the logic of C will be 1. 1 Q9. In Boolean algebra, the bar sign (-) indicates ..... 3 Q10. An OR gate has 4 inputs. A B C = A . \(Y=A.\overline{B}+\overline{A}.B\) A B Y 0 0 0 0 1 1 0 1 1 1 0 India’s #1 Learning Platform Start Complete Exam Preparation Daily Live MasterClasses Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,71,73,167+ Students (A + B) (C + D) (E + F) AB + CD + EF(A + B) (C + D) (E + F)\(\overline {AB} + \overline {CD} + \overline {EF} \) \(Z = \overline {\overline {A.B}\;.\;\overline {C.D\;} \;.\;\overline {EF} }\) \(Z = \overline {\overline {A.B\;} \; + \;\overline {C.D\;} + \;\overline {EF\;} }\) Z = AB + CD + EF India’s #1 Learning Platform Start Complete Exam Preparation Daily Live MasterClasses Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,71,73,167+ Students EX-NOR Gate: Symbol: Truth Table: Input A Input B Output Y = A ⊙ B 0 0 1 0 1 0 1 0 0 1 1 1 From the truth table, the output is one when both A and B are equal logic. inputs and ..... Low High alternately high and low may be high or low depending on relative magnitude of inputs Ans. 7400: 74HC00 is a 14-Pin Quad 2-Input NAND Gate IC (Integrated Circuit). India’s #1 Learning Platform Start Complete Exam Preparation Daily Live MasterClasses Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,71,73,167+ Students XNOR Gate: Symbol: Truth Table: Input A Input B Output \(Y={\overline{A\oplus B}}\) 0 0 1 0 1 0 1 0 0 1 1 1 Output Equation: \(Y={\overline{A\oplus B}}\) Key Points: 1) If B is always Low, the output is the inverted value of the other input A, i.e. Ā. India’s #1 Learning Platform Start Complete Exam Preparation Daily Live MasterClasses Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,71,73,167+ Students C = ABC = A + B\(C = \overline {AB} \)\(C = \overline {A + B} \) Concept: In Digital Electronics, Logic 1 means High and Logic 0 means low. Explanation: The given logic circuit is For different logic of A and B,4 cases are there and according to that logic of C will vary. (X1 ⊕ X2) \(A = \overline {{X_0}}\) Case 1 When X0 = 0 A = 1, B = 0, C = 0 output Y = C + X3 = X3 Case 2 When X0 = 1 A = 0 and C = 0 output Y = C + X3 = X3 Thus in both cases. Logic Gates Min. 7486: 74HC86 is a Quad 2-Input EXOR Gate 14 Pin IC. OR gate AND gate INVERTER gate Comparator Ans. 2 Q11. Both OR and AND gates can have only two inputs. The Boolean equation of output can be written as: Output = A B̄ + Ā B Output Equation: Y = A ⊙ B Key Points: 1) If B is always Low, the output is the inverted value of the other input A, i.e. Ā. A B C = A + B 0 0 0 0 1 1 1 0 1 1 1 1 NOT Gate: The Logic NOT Gate is the most basic of all the logic gates and is often referred to as an Inverting Buffer or simply an Inverter. Hence XOR gate can be used to know whether two digital inputs are identical. B 0 0 0 0 1 0 1 0 0 1 1 1 OR Gate: The Logic OR Gate is a digital logic circuit whose output goes HIGH only when any one or more than one of its inputs is HIGH. The general representation of all the minterms using 3-variables is shown below. 3 Q20. Ans. 3 When all three diodes are reversed biased (open-circuited), then the output will get grounded and the circuit will give 0 as output. truth table entries are necessary for a four-input circuit. 1) The output is low when both the inputs are the same. 2) The output is high when both the inputs are different. It has buffered outputs, providing high noise immunity and the ability to drive 10 LS-TTL loads. Internal circuit is composed of three stages, including a buffer output which provides high noise immunity and stable output. OR operation AND operation NOT operation None of the above ans. Q1. The universal gate is ..... NAND gate OR gate AND gate None of the above Ans. The output is ..... 3 Q5. The NAND gate is AND gate followed by ..... NOT gate OR gate AND gate None of the above Ans. XOR and XNOR are the derived gates. A universal gate is a gate that can implement any Boolean function without the need to use any other gate type. Important Points NAND GATE Symbol: Truth Table: Input A Input B Output \(Y = \overline {AB}\) 0 0 1 0 1 1 1 0 1 1 1 0 Output Equation: \(Y = \overline {A.B} = \overline A + \overline B\) Key Points: 1) If A is always High, the output is the inverted value of the other input B, i.e. B̄ 2) The output is low only when both the inputs are high 3) It is a universal gate India’s #1 Learning Platform Start Complete Exam Preparation Daily Live MasterClasses Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,71,73,167+ Students XOR GATE Symbol: Truth Table: Input A Input B Output Y = A ⊕ B 0 0 0 0 1 1 1 0 1 1 1 0 Output Equation: \(Y = {\bf{A}} \oplus {\bf{B}} = \bar AB + A\bar B\) Key Points: 1) The output is low or '0' when both the inputs are the same. It achieves high speed operation similar to equivalent bipolar schotty TTL while maintaining CMOS low power dissipation. Input VA Input VB Input VC Output 0 0 0 0 0 0 1 1 0 1 0 1 0 1 1 1 0 0 1 1 0 1 1 1 1 0 1 1 1 1 As the above-mentioned table is justifying the truth table of 3 input OR Gate, Hence the given circuit represents OR Gate. 2 When Diode is forward biased, it will be shorted and input will appear across the output. India’s #1 Learning Platform Start Complete Exam Preparation Daily Live MasterClasses Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,71,73,167+ Students The number of 2-input NAND gates required to implement a 2-input XOR gate is 4. 2) The output is low when both the inputs are different. Whenever in diode, if 1 is applied to anode and 0 to cathode then Diode acts as a short circuit i.e. ON. number of NAND Gate NOT 1 1 AND 3 2 OR 2 3 EX-OR 5 4 EXNOR 4 5 NAND 4 1 NOR 1 4 Half-Adder 5 5 Full-Adder 9 9 Full-Subtractor 9 9 India’s #1 Learning Platform Start Complete Exam Preparation Daily Live MasterClasses Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,71,73,167+ Students \(Q = \overline {AB} \) Output expression Q is equivalent to NAND gate. OR gates only AND gates and NOT gates AND gates, OR gates, and NOT gates OR gates and NOT gates Ans. 4) It is mostly used in parity generation & detection. 1 Q3. The inputs of a NAND gate are connected together. If inputs are the same, the output will be LOW '0'. 1 Q15. Symbol: Truth Table: Input A Input B Output \(Y={\overline{A\oplus B}}\) 0 0 1 0 1 0 1 0 0 1 1 1 Output Equation: \(Y={\overline{A\oplus B}}\) Key Points: 1) If B is always Low, the output is the inverted value of the other input A, i.e. Ā. \(Y=\overline{A}\) NAND Gate: The logic Gate is obtained after adding NOT Gate after AND Gate. Similarly, the number of 2-input NOR gates required to implement a 2-input XNOR gate is 4. 4) XNOR gate produces an output only when the two inputs are the same. Explanation: \(Y = {\bf{\bar X}} \oplus {\bf{X}} = \bar{\bar X} X+\bar X \bar X\) \(Y = XX+\bar X \bar X\) \(Y = X+\bar X \) Y = 1 Name AND Form OR Form Identity law 1.A=A 0+A=A Null Law 0.A=0 1+A=1 Idempotent Law A.A=A A+A=A Inverse Law AA’=0 A+A’=1 Commutative Law AB=BA A+B=B+A Associative Law (AB)C (A+B)+C = A+(B+C) Distributive Law A+BC=(A+B)(A+C) A(B+C)=AB+AC Absorption Law A(A+B)=A A+AB=A De Morgan’s Law (AB)’=A’+B’ (A+B)’=A’B’ BC + AC̄AB + AC̄ + BAB + AC̄AB + BC Concept: 3 variable K-maps: For a 3-variable Boolean function, there is a possibility of 8 output minterms. ∴ C = A + B Important Points Logic Circuit for AND gate is C = AB A B C 0 0 0 0 1 0 1 0 0 1 1 1 India’s #1 Learning Platform Start Complete Exam Preparation Daily Live MasterClasses Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,71,73,167+ Students Y = 0, Z = 0Y = 1, Z = 0Y = 0, Z = 1Y = 1, Z = 1 After the simplification, we can redraw the given logic circuit as So that, Y = X.Ā Y = (X) (0) Y = 0 Now, Z = X + Y Z = (A + B) + (0) Z = (1 + 1) + (0) ∴ Z = 1 India’s #1 Learning Platform Start Complete Exam Preparation Daily Live MasterClasses Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,71,73,167+ Students The given gate is an XNOR gate. NOR gate is an OR gate followed by a NOT gate. \(Y=\overline{A+B}\) A B Y 0 0 1 0 1 0 1 0 0 1 1 0 XOR Gate: output goes HIGH to a logic level 1 only when both of its inputs are different. One input is high and the other three are low. Logic level gates like 74LS32 and flip-flops play a vital role in digital electronics. output. Each gate has two inputs that’s why it is named Quad 2-input or Gate. T is the time period of the output n is the number of logic gates Tpd is the propagation delay of one gate Calculation: Given, n = 3 as there are three gates with feedback Tpd = 100 nsec T = 2 × 3 × 10-7 T= 6 × 10-7 Fundamental Frequency is given by f \(f=\frac{1}{T}\) \(f=\frac{1}{6 \ × \ 10^{-7}}\) f = 1.67 × 106 f = 1.67 MHz India’s #1 Learning Platform Start Complete Exam Preparation Daily Live MasterClasses Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,71,73,167+ Students A 2 input logic gate which has always a high output when its inputs are the same is XNOR. 2) The output is high or '1' when both the inputs are different. ..... output Y = X3 output Y will be 1, when X3 = 1 Favourable cases: x3 x2 x1 x0 1 0 0 0 1 0 0 1 1 0 1 0 1 0 1 1 1 1 0 0 1 1 0 1 1 1 1 0 1 1 1 1 Thus there are 8 favourable cases for output Y = 1 India’s #1 Learning Platform Start Complete Exam Preparation Daily Live MasterClasses Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,71,73,167+ Students A’B + AB’A’B’ + A’BA’B’ + ABA’B’ + AB’ EX-NOR Gate: Symbol: Truth Table: Input A Input B Output Y = A ⊙ B 0 0 1 0 1 0 1 0 0 1 1 1 From the truth table, the output is one when both A and B are equal logic. It utilizes advanced silicon-gate CMOS technology to achieve operating speed similar to LS-TTL gates with low power consumption of standard CMOS IC’s. AND Gate: The Logic AND Gate is a digital logic circuit whose output HIGH only when all the inputs are 1 (HIGH) otherwise the output will be LOW. Stop signal Invert input signal Act as a universal gate None of the above Ans. 3) The output is high when both the inputs are the same. 2) The output is high when both the inputs are the same. At least one input is LOW All inputs are HIGH All inputs are LOW Ans. This device contains four independent gates each of which performs the logic NAND function. number of NAND Gate NOT 1 1 AND 3 2 OR 2 3 EX-OR 5 4 EXNOR 4 5 NAND 4 1 NOR 1 4 Half-Adder 5 5 Half-Subtractor 5 5 Full-Adder 9 9 Full-Subtractor 9 9 India’s #1 Learning Platform Start Complete Exam Preparation Daily Live MasterClasses Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,71,73,167+ Students The figure below shows the IEEE/ANSI symbols alongside the traditional symbols for the basic gates: India’s #1 Learning Platform Start Complete Exam Preparation Daily Live MasterClasses Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,71,73,167+ Students 7432: 74LS32 is a Dual input OR Gate with Quad package. It contains four independent gates each of which performs the logic or function. 3 Q19. The basic logic gate whose output is the complement of the input is ..... All inputs are protected from damage due to static discharge by internal diodes clamps to VCC and ground. LOW inputs and LOW outputs HIGH inputs and HIGH outputs LOW inputs and HIGH outputs None of these Ans. It provides 4 independent 2-Input AND gate with standard push pull outputs. number of NOR Gate Min. 74HC86 IC is used for building Arithmatic logic circuits, computational logic comparators and Error Detection Circuits and True / Complement Element. 3 Q7. The only function of NOT gate is to ..... 3 Q4. The NOR gate is OR gate followed by ..... AND gate NAND gate NOT gate None of the above Ans. According to Result, we make a table A B C 0 0 0 0 1 1 1 0 1 1 1 1 This Table is of Logic OR gate. 2 Q8. When an input signal 1 is applied to a NOT gate, the output is ..... 0 1 Either 0 & 1 None of the above Ans. 4) XNOR gate produces an output only when the two inputs are same. NAND circuits are contained in a 7400 NAND IC. It is advanced high speed CMOS 2-input exclusive OR gate fabricated with silicon gate CMOS technology. gates . The resulting circuit is ..... 3 Q13. A single transistor can be used to build ..... input values will cause an AND logic gate to produce a HIGH output. NAND gate utilizes advanced silicon-gate CMOS technology to achieve operating speed similar to LS-TTL gates with the low power consumption of standard CMOS integrated circuits. 7408: 74HC08 is a Quad 2-Input AND Gate 14 Pin IC. 2) The output is high when both the inputs are different. The implementation of other gates using only NOR gate is as shown: Logic Gates Min. 1 Q2. The inverter is ..... NOT gate OR gate AND gate None of the above Ans. India’s #1 Learning Platform Start Complete Exam Preparation Daily Live MasterClasses Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,71,73,167+ Students 1 GHz0.5 GHz3.34 MHz1.67 MHz Concept: Propagation Delay: The propagation delay, or gate delay, is the length of time that starts when the input to a logic gate becomes stable and valid to change, to the time that the output of that logic gate is stable and valid to change. Case 1 When A is logic 0 and B is logic 0 Then the logic of C will be 0. \(Y=\overline{A.B}\) A B Y 0 0 1 0 1 1 1 0 1 1 1 0 NOR Gate: The logic Gate is obtained after adding NOT Gate after OR Gate. XNOR Gate: Symbol: Truth Table: Input A Input B Output \(Y={\overline{A\oplus B}}\) 0 0 1 0 1 0 1 0 0 1 1 1 Output Equation: \(Y={\overline{A\oplus B}}\) Key Points: 1) If B is always Low, the output is the inverted value of the other input A, i.e. Ā.

11/03/2022 · Solve each of the following equations. Express your final answers as algebraic expressions where possible: (1) z^3+27i=0 (2) z^2=3-4i; Show work and dot down answers on paper only please, it helps with understanding and making things easier to follow and it’s more clear. Thank you school. The stops he used to conduct the survey are l… Risk-Based Inspection (RBI) is an analysis methodology and process that, as opposed to condition-based inspection, requires qualitative or quantitative assessment of the probability of failure (PoF) and the consequence of failure (CoF) associated with each equipment item, piping circuits included, in a particular process unit. A properly-implemented RBI program categorizes ... This is the logic diagram of a single bit full adder made from digital logic gates. Each input lines A and B feeds a single bit to the adder while c in represents a carry bit from previous adders. The output lines provide the sum and carry out in form of bits. Related Post: Different Types of Sensors with Applications. Riser Diagram

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