

Electronics & Logical Gate

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1) The universal gate is	d) None of the above
a) JAK Electronics	
b) NAND gate	8) When an input signal 1 is applied to a NOT gate,
c) OR gate	the output is
d) AND gate	a) 0
	b) 1
2) The inverter is	c) Either 0 & 1
a) NOT gate	d) None of the above
b) OR gate	
c) AND gate	9) In Boolean algebra, the bar sign (-) indicates
d) None of the above	
	a) OR operation
3) The inputs of a NAND gate are connected	b) AND operation
together. The resulting circuit is	c) NOT operation
a) OR gate	d) None of the above
b) AND gate	
c) NOT gate	10) An OR gate has 4 inputs. One input is high and
d) None of the above	the other three are low. The output is
	a) Low
4) The NOR gate is OR gate followed by	b) High
a) AND gate	c) alternately high and low
b) NAND gate	d) may be high or low depending on relative
c) NOT gate	magnitude of inputs
d) None of the above	
	■ 11) Both OR and AND gates can have only two
5) The NAND gate is AND gate followed by	11) Both OR and AND gates can have only two inputs.
	a) True
a) NOT gate	b) False
b) OR gate	,
c) AND gate	12) The output will be a LOW for any case when
d) None of the above	one or more inputs are zero in a/an
	a) OR Gate
6) Digital circuit can be made by the repeated use of	b) NOT Gate
,	c) AND Gate
a) OR gates	d) NAND Gate
b) NOT gates	
c) NAND gates	13) A single transistor can be used to build
d) None of the above	gates.
3)	a) OR Gate
7) The only function of NOT gate is to	b) NOT Gate
a) Stop signal	c) AND Gate
b) Invert input signal	d) NAND Gate
c) Act as a universal gate	
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- 14) The logic gate that will have HIGH or "1" at its output when any one of its inputs is HIGH is a/an gate.
- a) OR Gate
- b) NOT Gate
- c) AND Gate
- d) NAND Gate
- 15) NAND circuits are contained in a 7400 NAND IC.
- a) 1
- b) 2
- c) 4
- d) 8
- 16) Exclusive-OR (XOR) logic gates can be constructed fromlogic gates
- a) OR gates only
- b) AND gates and NOT gates
- c) AND gates, OR gates, and NOT gates
- d) OR gates and NOT gates
- 17) truth table entries are necessary for a four-input circuit.
- a) 4
- b) 8
- c) 12
- d) 16
- 18) A NAND gate has inputs and output.
- a) LOW inputs and LOW outputs
- b) HIGH inputs and HIGH outputs
- c) LOW inputs and HIGH outputs
- d) None of these
- 19) The basic logic gate whose output is the complement of the input is
- a) OR gate
- b) AND gate
- c) INVERTER gate
- d) Comparator

- 20) input values will cause an AND logic gate to produce a HIGH output.
- a) At least one input is HIGH
- b) At least one input is LOW
- c) All inputs are HIGH
- d) All inputs are LOW
- 21) Which number system is used by digital computers?
- a) Decimal
- b) Binary
- c) Octal
- d) Hexadecimal
- 22) What is the base of binary number system?
- a) 2
- b) 10
- c) 8
- d) 16
- 23) Which number system has a base of 16
- a) Decimal
- b) Binary
- c) Octal
- d) Hexadecimalivate Limited
- 24) Which of the following is a logic gate?
- a) OR gate
- b) XOR gate
- c) NAND gate
- d) All of the above
- 25) Which of the following is a NOT gate?
- a) AND gate
- b) OR gate
- c) XOR gate
- d) None of the above
- 26) Which of the following is a universal gate?
- a) AND gate
- b) OR gate
- c) XOR gate
- d) NAND gate

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27) Which of the following is a basic logic gate?	c) 0 1 1 1
a) AND gate	1000
b) XOR gate	d) 0 1 0 0
c) NAND gate	1011
d) All of the above	
	34) What is the truth table for an OR gate?
28) What is the output of an AND gate?	a) 0 0 0 1
a) 0	0101
b) 1	b) 0 0 1 1
c) Depends on the input	0111
d) None of the above	c) 0 1 1 1
1.1	1000
29) What is the output of an OR gate?	d) 0 1 0 0
a) 0	1011
b) 1	
c) Depends on the input	35) What is the truth table for a NOT gate?
d) None of the above	a) 0 1
	10
30) What is the output of a NOT gate?	b) 0 0
a) 0	11,
b) 1	c) 1 0
c) Depends on the input	0 1
d) None of the above	d) 1 1
31) Which of the following gates is equivalent to an	ru India Private Limited

0 (11	
)1			c) 1 0	
) Depends on the input			0 1	
) None of the above			d) 1 1	
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31) Which of the following gates is equivalent to an OR gate followed by a NOT gate?

a) NAND gate b) NOR gate c) XOR gate

d) XNOR gate

32) Which of the following gates is equivalent to an AND gate followed by a NOT gate?

a) NAND gate b) NOR gate c) XOR gate d) XNOR gate

33) What is the truth table for an AND gate? a) 0001

0101 b) 0 0 1 1

36) Which of the following gates is equivalent to an XOR gate followed by a NOT gate?

a) NAND gate b) NOR gate c) XOR gate d) XNOR gate

37) What is the truth table for an XOR gate?

1011

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38) Which of the following is a combinational logic circuit?

- a) Flip-flop
- b) Counter
- c) Decoder
- d) All of the above

39) What is the purpose of a decoder?

- a) To convert a binary code into a decimal number
- b) To convert a decimal number into a binary code
- c) To convert a binary code into a hexadecimal number
- d) None of the above

40) Which of the following is an example of a half adder?

- a) AND gate
- b) OR gate
- c) XOR gate
- d) None of the above

41) What is the purpose of a full adder?

- a) To perform addition of two binary numbers
- b) To perform subtraction of two binary numbers
- c) To perform multiplication of two binary numbers
- d) None of the above

42) Which of the following is an example of a multiplexer?

- a) AND gate
- b) OR gate
- c) XOR gate
- d) None of the above

43) What is the purpose of a multiplexer?

- a) To perform addition of two binary numbers
- b) To select one of several input signals and forward the selected input to a single output line
- c) To convert a binary code into a decimal number
- d) None of the above

44) Which of the following is an example of a demultiplexer?

- a) AND gate
- b) OR gate
- c) XOR gate
- d) None of the above

45) What is the purpose of a demultiplexer?

- a) To perform addition of two binary numbers
- b) To select one of several input signals and forward the selected input to a single output line
- c) To convert a binary code into a decimal number
- d) None of the above

46) Which of the following is an example of a flip-

- a) AND gate
- b) OR gate
- c) XOR gate
- d) None of the above

47) What is the purpose of a flip-flop?

- a) To perform addition of two binary numbers
- b) To store a single bit of information
- c) To convert a binary code into a decimal number
- d) None of the above

- a) 0
- b) 1
- c) Depends on the input
- d) None of the above

49) What is the truth table for an XNOR gate?

- a) 0 0 1 0
 - 0101
- b) 0 0 1 1
 - 0110
- c) 0 1 0 1
 - 1010
- d) 0 1 1

50) How many types of logic families exist?

- a) Two
- b) Six

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c) Four

d) Seven



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