Electronic Devices And Circuits Mcq With Answer

#electronic devices mcq with answers #circuits mcq questions #electronics multiple choice questions #basic electronics quiz #electrical engineering electronics mcq

Master your understanding of Electronic Devices and Circuits with our comprehensive collection of Multiple Choice Questions (MCQ). This resource provides essential practice quizzes covering fundamental concepts in electronics, complete with detailed answers to help solidify your learning. Ideal for students preparing for exams, job interviews, or anyone looking to test their knowledge in basic electronics and circuit analysis.

These articles serve as a quick reference for both beginners and advanced learners.

Electronic Devices And Circuits Mcq With Answer

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Intro
A. drive in diffusion of dopants and carriers B. band to band transition dominants over impurity ionization C. impurity ionization dominants over band to band transition D. band to band transition is balanced by impurity ionization
low copper loss low eddy current loss low resistivity higher specific gravity compared to iron
PIN diode Tunnel diode Schottky diode
collector current base current emitter current base current or emitter current
tunnel diode MOSFET JFET photo diode
emitter current and emitter to base voltage emitter current and collector to emitter voltage
MOSFET PIN diode Tunnel diode UJT
Zener diode PIN diode Tunnel diode Photo diode
Tunnel diode Photo diode PIN diode Schottky diode
NPN transistor Tunnel diode JFET MOSFET
Silver Aluminium Tungsten Platinum
PIN diode Zener diode Schottky diode Photo diode
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core saturation
working mask
barrier potential
low resistivity
Frequency
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WELCOME TO LOTUS
(b) Vce=Vcc . (c) Vce has negative value (d) Ic is maximum
The h-parameters of a transistor depends on its (a) configuration (b) operating point (c) temperature
The smallest of the four h-parameters of a transistor is (a) hi (b) hr (c) ho (d) hf
A transistor is operated as a non-saturated switch to eliminate (a) storage time (b) turn-off time (c) turn on time (d) delay time
The effective ß of a Darlington pair using transistors of ß values 50 and 100 is (a) 5000
If the value of a is 0-9 then value of B is (a) 9
If a=0.98, then ratio Iceo/lco is (a) 50 (b) 0.04
When a transistor is fully switched On, it is said to be (a) shorted (b) saturated (c) open (d) cut-off
In the case of a BJT ,a is (a) positive and 1 (b) positive and 1
If the common base DC current gain of a BJT is 0.98, it's common emitter DC current gain is (a) 51 (b) 49 (c) 1 (d) 0.02
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Intro
Electrical comprehension tests are used to assess your competence in the use of electrical concepts.
SAMPLE QUESTION: What does the following symbol represent?
In the following circuit, what happens if the switch remains open?
In the following circuit, if switch A closes and switch B remains open, what will happen?
In the following circuit, with switch A open, which bulbs are illuminated (if any)?
If switch B remains open, what will happen? 12 V Battery
In the following electrical circuit, if switch A closes and switch B and switch C remain open, what will happen?
In the following circuit, how many bulbs will illuminate if switch 3 closes?
In the following circuit, how many bulbs will illuminate if switches 1 and 5 close?
Which of the following symbols represents a speaker? TIMER

Which of the following symbols represents a heating element?
Which of the following symbols represents a variable TIMER
ELECTRONIC CIRCUIT SYMBOLS
Which type of electrical device only allows current in one direction?
What is covered on wires to guard the
Try another one...
What does the DC stand for in the term 'DC electricity'?
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Intro
Which of the following code is also known as reflected code A. Excess 3 codes B. Grey code C. Straight binary code D. Error code
In to encode a negative number first the binary representation of its magnitude is taken complement each bit and then add 1 A Signed integer representation
The output of an OR gate is LOW when A. all inputs are LOW B. any input is LOW
Convert the fractional binary number 0000.1010 to decimal. A 0.625 B 0.50
How is a J-K flip-flop made to toggle? A. J = 0, K = 0
IC chip used in digital clock is A.SSI
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CLOSED CIRCUIT
RESISTOR
CAPACITOR
TRANSISTOR
SWITCH
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Voltage
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DC Circuits
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Inductance
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Knowledge
the complete cycle of the input signal half cycle of the input signal less than half cycle of the input signal one-fourth cycle of the input signal
Half wave rectifier Full wave rectifier Bridge rectifier Three phase full wave rectifier
electrical connection to external Ckt. physical strength isolation
Vacuum triode FET SCR Both (a) and (b)
Phosphorus Boron Arsenic Antimony
due to rapture of covalent band mostly in germanium junctions in lightly doped junctions due to thermally generated minority carriers
total surface area resistance value
Active Saturation Cut off Reverse active
formation of P-type semiconductor more free electrons than holes in the semiconductor antimony concentrating on the edges of the crystals increased resistance
high purity silicon high purity silica heavily doped polycrystalline silicon epitaxial grown silicon
C. emitter is positive with respect to base and base is positive with respect to collector D. emitter is negative with respect to base and base is positive with respect to collector
reverse biased forward biased biased to breakdown
emitter base junction collector base junction collector either (a) or (b)
transition zone depletion region neutral region active region
resistance of diode conductance of diode incremental resistance of diode incremental conductance of diode
reverse bias exceeds the limiting value forward bias exceeds the limiting value forward current exceeds the limiting value potential barrier is reduced to zero
a hole is created a proton is also lost atom becomes an ion rest of the electron move at a faster rate
forward biased reverse biased either forward or reverse biased
infrared region ultraviolet region
Cut off Saturation Forward active Reverse active
rolling casting casting electrolytic refining induction heating
gate voltage drain current source current all of the above
phase shift oscillator weinbridge oscillator colpitt's oscillator clapp oscillator
impure semi-conductor dipole semi-conductor bipolar semi-conductor extrinsic semi-conductor
applied electric field concentration gradient of charge carrier square of the electric field cube of the applied electric field
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Intro
THE GATE OXIDE THICKNESS IN THE MOS CAPACITOR IS
THE MAXIMUM DEPLETION LAYER WIDTH IN SILICON IS
THE RATIO OF MOBILITY TO DIFFUSION COEFFICIENT IN A SEMICONDUCTOR HAS THE UNITS
IN AN N TYPE SILICON CRYSTAL AT ROOM TEMPERATURE, WHICH OF THE FOLLOWING CAN
PEAK ELECTRIC FIELD IN PN JUNCTION DEVICE AT ROOM TEMPERATURE
AT ROOM TEMPERATURE, THE POSSIBLE VALUE FOR THE MOBILITY OF ELECTRONS IN THE INVERTION LAYER OF A SILICON N CHANNEL MOSFET IS
DRIFT CURRENT IN SEMICONDUCTOR DEPENDS UPON
AP+N JUNCTION HAS BUILT IN POTENTIAL OF 0.8V. THE DEPLETION LAYER WIDTH AT A REVERSE BIAS OF 1.2 V OF 2um. FOR A REVERSE BIAS OF 7.2 V. THE DEPLETION LAYER WIDTH WILL BE
IN A P-N JUNCTION DIODE UNDER REVERSE BIAS. THE MAGNITUDE OF ELECTRIC FIELD IS MAXIMUM AT
CONSTANT CURRENT AT ROOM TEMPERATURE. WHEN THE TEMPERATURE IS INCREASED BY 10°c, THE FORWARD BIAS VOLTAGE ACROSS TH PN JUNCTION
IN A FORWARD BIASED PN JUNCTION DIODE. THE SEQUENCE OF EVENTS THAT BEST DESCRIBES THE MECHANISM OF CURRENT FLOW IS
FOR MOSFET WHEN CHANNEL LENGTH REDUCES VTH ALSO REDUCES AND
CONVERSION EFFICIENCY OF SILICON SOLAR CELL IS
A SEMICONDUCTOR PHOTO DIODE USES
IN AN INTRINSIC SEMICONDUCTOR THE FREE ELECTRON CONCENTRATION DEPENDS ON
THE DIFFUSION POTENTIAL ACROSS A PN JUNCTION
A ZENER DIODE WORKS ON THE PRINCIPLE OF
IN A TUNNEL DIODE, IMPURITY CONCENTRATION IS OF THE ORDER OF
IN A TUNNEL DIODE, DEPLETION LAYER OF WIDTH IS OF ORDER
TUNNEL DIODE IS A PN DIODE WITH
FOR GERMANIUM AT ROOM TEMPERATURE. CRITICAL WAVELENGTH FOR PHOTO CONDUCTION IS
RESPONSE TIME OF PIN DIODE IS OF THE ORDER OF
THE TRANSITION REGION IN AN OPEN CIRCUITED PN JUNCTION CONTAINS
IN A GE DIODE, REVERSE SATURATION CURRENT IS OF THE ORDER OF
CRITICAL VOLTAGE OF BARITT DIODE DEPENDS ON
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