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22225 BEC MCQ (Basic Electronics) Chapter-Wise

2nd SEM ALL SUBJECT MCQ: __click here

Unit – I Electronic Components & Signals

- 1. For 180 K ohm resistor with 10 % tolerance, the color band will be in the sequence of a. Brown-grey-yellow-gold
 - b. Brown-grey-yellow-silver
 - c. Brown-blue-yellow-silver
 - d. Brown-grey-yellow-gold

Answer: brown-grey-yellow-silver

- 2. Transistor is
 - a. A passive component
 - b. Active component
 - c. None of these
 - d. Both a & b

Answer: active component

- 3. Inductor is
 - a. Active component
 - b. Passive component
 - c. None of these
 - d. Both a & b

Answer: passive component

- 4. In electronics the term IC denotes
 - a. Industrial control
 - b. Integrated circuits
 - c. Internal combustion
 - d. International circuits

Answer: integrated circuits

- 5. What is the unit of inductance?
 - a. Joule
 - b. Farad
 - c. Henry
 - d. Watts

Answer: henry

- 6. Which value is equal to one Pico farad?
 - a. 10^6 farad
 - b. 10¹² farad
 - c. 10^{-6} farad
 - d. 10^{-12} farad

Answer: 10^{-12} farad

- 7. Which of the following elements comprise of the passive devices? a. Resistors, capacitors & SCRs
 - b. Vacuum tubes, SCRs & diodes
 - c. Transformers, inductors & diodes
 - d. Transformers, TRIACs & DIACs

Answer: transformers, inductors & diodes

- 8. Active devices can also be used as
 - a. Amplifiers
 - b. Choppers
 - c. Converters
 - d. Inverters

Answer: amplifiers

- 9. A CRO is a
 - a. Cathode ray oscillator
 - b. Cathode ray oscilloscope
 - c. Capacitor- resistor oscillator
 - d. Capacitor- resistor output

Answer: cathode ray oscilloscope

10. There are two main characteristics of a

resistor are a. Current & voltage

- b. Current & power
- c. Resistance & power
- d. Resistance & current

Answer: resistance & power

Unit – II Diodes & their Applications

- 1. The DC current through each diode in a bridge rectifier equals:
 - a. The load current
 - b. Half the DC load current
 - c. Twice the DC load current
 - d. One-fourth the DC load current

Answer: the load current

- 2. In a power supply diagram, which block indicates a smooth dc output? a. Transformer
 - b. Filter
 - c. Rectifier
 - d. Regulator

Answer: regulator

- 3. Testing a good diode with an ohmmeter should indicate
 - a. High resistance when forward or reverse biased
 - b. Low resistance when forward or reverse biased
 - c. High resistance when reverse biased & low resistance when forward biased d. High resistance when forward biased & low resistance when reverse biased

Answer: high resistance when reverse biased & low resistance when forward biased

- 4. Shunting the ac component away from the load is the task of a:
 - a. Transformer
 - b. Filter
 - c. Regulator
 - d. Rectifier

Answer: filter

- 5. When used as a voltage regulator, Zener diode is normally
 - a. Not biased
 - b. Forward biased
 - c. Reverse biased
 - d. None of the above

Answer: reverse biased

- 6. For a germanium diode, the barrier potential is
 - a. 0.3 volt
 - b. 0.3 eV
 - c. 0.7 volt
 - d. 0.7 eV

Answer: 0.3 volt

- 7. The output from an unfiltered half wave or full wave rectifier is a a. Smooth DC voltage
 - b. Steady DC voltage
 - c. Pulsating DC voltage
 - d. AC voltage

Answer: pulsating DC voltage

- 8. In the breakdown region, a Zener diode behaves like a source a. Constant voltage
 - b. Constant current
 - c. Constant resistance
 - d. None of the above

Answer: constant voltage

- 9. A Zener diode has breakdown
 - a. Undefined
 - b. Zero
 - c. Sharp
 - d. None of the above

Answer: sharp

10. The maximum efficiency of a half wave

rectifier is a. 40.6 %

b. 81.2 %

c. 50 %

d. 25 %

Answer: 40.6 %

Unit- III Bipolar Junction Transistor

- 1. In a BJT
 - a. The base region is sandwiched between emitter & collector
 - b. The collector is sandwiched between base & emitter
 - c. The emitter region is sandwiched between base & collector
 - d. None of the above

Answer: the base region is sandwiched between emitter & collector

- 2. Amplifiers & oscillators using BJT, operate in region
 - a. Inverted mode
 - b. Active....
 - c. Cut off
 - d. Saturation

Answer: active

- 3. The arrow in a transistor terminal represents
 - a. Emitter
 - b. Collector
 - c. Base
 - d. None of the above

Answer: emitter

- 4. Transistor is a device which is a
 - a. Transferring voltage device
 - b. Current operated one
 - c. Power operated one
 - d. Voltage operated one

	Answer: current operated one
5.	Transistor works as an open switch when emitter junction is biased & collector junction is biased a. Forward, forward b. Reverse, reverse c. Reverse, forward d. Forward, reverse
	Answer: reverse, reverse
6.	When a transistor is in active region the resistance is between a. Emitter to collector b. Base to collector c. Emitter to base d. All of the above
7.	Answer: base to collector In a NPN transistor,
8.	In a transistor a. IB=IC+IB b. IC=IE+IB c. IE=IC+IB d. IE=IC-IB Answer: IE=IC+IB
9.	The value of α of a transistor is a. 0 b. 1 c. More than 1 d. Less than 1 Answer: less than 1

 10. The value of β of a transistor is a. Between 20 & 500 b. 1 c. Less than 1 d. 0 Answer: between 20 & 500
Unit – IV Field Effect Transistor
 1. Junction Field Effect Transistor (JFET) contain how many diodes? a. 4 b. 3 c. 2 d. 1
Answer: 2 2. A "U" shaped, opposite-polarity material built near a JFET-channel center is called the: a. Gate b. Block c. Drain d. Heat sink Answer: Gate
3. What is the input impedance of a common-gate configured JFET? a. Very low b. Low c. High d. Very high
Answer: very low
4. JFET terminal "legs" are connections to the drain, the gate, & the:a. Channelb. Sourcec. Substrate

d. Cathode
Answer: source
5. With the E-MOSFET, when gate input voltage is zero, drain current is: a. At saturationb. Zeroc. IDSSd. Widening the channel
Answer: zero
6. How will electrons flow through a p-channel JFET?a. From source to drainb. From source to gatec. From drain to gated. From drain to source
Answer: from drain to source 7. A JFET is also called Transistor a. Unipolar b. Bipolar c. Unijunction d. None of the above
Answer: unipolar
8. A MOSFET is sometimes called JFET a. Many gate b. Open gate c. Insulated gate d. Shorted gate
Answer: insulated gate
9. The pinch-off voltage of a JFET is about a. 5 V b. 0.6 V c. 15 V d. 25 V Answer: 5 V
Allswel. 3 V

- 10. The gate voltage in a JFET at which drain current becomes zero is called voltage a. Saturation
 - b. Pinch-off
 - c. Active
 - d. Cut-off

Answer: pinch-off