

Msbte News

Basic Electronics MCQ Question with Answers Pdf

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 **Answer**
 - c. Brown-blue-yellow-silver
 - d. Brown-grey-yellow-gold

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

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

4. One Pico farad is Equal to?
 - a. 10^6 farad
 - b. 10^{-12} farad **Answer**
 - c. 10^{-6} farad
 - d. 10^{-12} farad

5. A CRO is a

- a. Cathode ray oscillator
- b. Cathode ray oscilloscope **Answer**
- c. Capacitor- resistor oscillator
- d. Capacitor- resistor output

6. The DC current through each diode in a bridge rectifier equals:

- a. The load current **Answer**
- b. Half the DC load current
- c. Twice the DC load current
- d. One-fourth the DC load current

7. Which block indicates a smooth dc output in power supply Block Diagram?

- a. Transformer
- b. Filter
- c. Rectifier
- d. Regulator **Answer**

8. When used as a voltage regulator, Zener diode is normally

- a. Not biased
- b. Forward biased
- c. Reverse biased **Answer**
- d. None of the above

9. The barrier potential of a Germanium diode is?

- a. 0.3 volt **Answer**
- b. 0.3 eV
- c. 0.7 volt
- d. 0.7 eV

10. A Zener diode has breakdown

- a. Undefined
- b. Zero
- c. Sharp **Answer**
- d. None of the above

11. In a BJT

- a. The base region is sandwiched between emitter & collector
- Answer**
- b. The collector is sandwiched between base & emitter
- c. The emitter region is sandwiched between base & collector
- d. None of the above

12. Amplifiers & oscillators using BJT, operate in region

- a. Inverted mode
- b. Active **Answer**
- c. Cut off
- d. Saturation

13. Transistor works as an open switch when the emitter junction is biased & collector junction is biased

- a. Forward, forward
- b. Reverse, reverse **Answer**
- c. Reverse, forward
- d. Forward, reverse

14. When a transistor is in active region the resistance is between

- a. Emitter to collector
- b. Base to collector **Answer**
- c. Emitter to base
- d. All of the above

15. The value of β of a transistor is

- a. Between 20 & 500 **Answer**
- b. 1
- c. Less than 1
- d. 0

16. Junction Field Effect Transistor (JFET) contains how many diodes?

- a. 4
- b. 3
- c. 2 **Answer**
- d. 1

17. A “U” shaped, opposite-polarity material built near a JFET-channel center is called the:

- a. Gate **Answer**
- b. Block
- c. Drain
- d. Heat sink

18. With the E-MOSFET, when gate input voltage is zero, drain current is:

- a. At saturation
- b. Zero **Answer**
- c. IDSS
- d. Widening the channel

19. How will electrons flow through a p-channel JFET?

- a. From source to drain
- b. From source to gate
- c. From drain to gate
- d. From drain to source **Answer**

20. The pinch-off voltage of a JFET is about

- a. 5 V **Answer**
- b. 0.6 V
- c. 15 V
- d. 25 V

21. Inductor is

- a. Active component
- b. Passive component **Answer**
- c. None of these
- d. Both a & b

22. 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 **Answer**
- d. AC voltage

23. What are the main characteristics of a resistor

- a. Current & voltage
- b. Current & power
- c. Resistance & power **Answer**
- d. Resistance & current

24. Inductor is

- a. Active component
- b. Passive component **Answer**
- c. None of these
- d. Both a & b

25. In electronics the term IC denotes

- a. Industrial control
- b. Integrated circuits **Answer**
- c. Internal combustion
- d. International circuits

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