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Score: 5/25 (20.00%)

Code: 1296

1. What is the current gain of common collector amplifier?

- A) Low
 B) High
 C) Medium (Incorrect)
 D) **Very high**

2. What in the current gain of a common ? base amplifier?

- A) Unity (Incorrect)
 B) Infinity
 C) Greater than 1
 D) **Less than 1**

3. What is the meaning of first letter indicated in the transistor code number BC 107?

- A) Germanium material used
 B) **Silicon material used**
 C) Antimony material used
 D) Indium material used (Incorrect)

4. What is the formula used to calculate the current gain (alpha) of common base amplifier?

- A) **IC/ IE**
 B) IE/ IC
 C) IB/ IE (Incorrect)
 D) IE/ IC

5. What is the name of multi-stage amplifiers?

- A) Cascoded amplifier (Incorrect)
 B) **Cascaded amplifier**
 C) Complementary symmetry amplifier
 D) Darlington pair amplifier

6. What is the maximum emitter to base voltage VEB (max) for the transistor BC 147?

- A) 4V
 B) 5V
 C) **6V (Correct)**
 D) 8V

7. How the maximum permissible voltage that can be applied across the collector ? Emitter junction of a transistor is indicated?

- A) **VCE (max) in volts**
 B) VBE (max) in volts (Incorrect)
 C) VCB (max) in volts
 D) VCC in volts

8. Which configuration of transistor amplifier is most commonly used in electronic circuits?

- A) Common base configuration (Incorrect)
 B) **Common emitter configuration**
 C) Common collector configuration
 D) Common drain amplifier configuration

9. Why transistors made of silicon is preferred over the

germanium semiconductor material?

- A) Complex design
 B) **Higher thermal stability**
 C) Requires complicated bias arrangement (Incorrect)
 D) Silicon transistor needs low cut-in-voltage

10. Why NPN type of transistors are preferred over the PNP type transistors?

- A) NPN has lower switching speed (Incorrect)
 B) NPN has good bias stability
 C) **NPN has higher switching speed**
 D) Low operating voltage

11. Which type of transistors are required to amplify signals from the microphone /transducer?

- A) **Low power transistors**
 B) Medium power transistors
 C) High power transistors
 D) Epitaxial versa watt transistors (Incorrect)

12. What type of packaging is generally used to transistors utilized for low power amplification?

- A) Metal packaging
 B) **Plastic packaging (Correct)**
 C) Ceramic packaging
 D) Plastic packaging with metal heatsinks

13. Which type of packaging is used to transistors utilized for medium power amplification?

- A) **Plastic packaging with metal heatsinks**
 B) Ceramic packaging
 C) Plastic packaging
 D) Metal packaging (Incorrect)

14. Which type of amplifier is used to operate the loud speaker?

- A) IF amplifier (Incorrect)
 B) RF amplifier
 C) **Power amplifier**
 D) Voltage amplifier

15. What is the voltage gain in a transistor if the input voltage is 40mv and the output voltage is 3.6V?

- A) 45
 B) **90**
 C) 180 (Incorrect)
 D) 270

16. What is the input impedance of darlington pair transistors?

- A) Very low input impedance
 B) **Very high input impedance (Correct)**

C) Medium input impedance D) Uniter

17. What is the advantage of using bias in transistor circuits?

- A) Provides positive feedback
C) Easily sets saturated
- B) Never reach saturation (Correct)**
D) Gives maximum distortion

18. Which class of amplifier uses fixed bias because of its important advantage of transistor will never go to saturation?

- A) Class - A**
C) Class - AB
- B) Class - B (Incorrect)
D) Class - C

19. How does the values of bias resistors selected for collector current in class -B amplifiers?

- A) Q point set slightly below cut-off (Incorrect)
C) Quiescent current beyond the cut-off point
- B) Quiescent current at mid point
D) Quiescent current over the cut-off value

20. Which parameter of passive component can be calculated using the formula ?

- A) Capacitance (Incorrect)
C) Capacitive reactance
- B) Inductance
D) Inductive reactance

21. What will happen when the forward bias voltage across the PN junction is increased excessively?

- A) Increases the cut - in - voltage
C) Junction ruptured and short circuited
- B) Barrier width of junction increases
D) No current flows through the junction (Incorrect)

22. What is the overall base emitter voltage required to turn the darlington pair?

- A) 0.2 V
C) 0.7 V (Incorrect)
- B) 0.3 V
D) 1.4 V

23. How can you confirm a transistor as defective?

- A) By circuit testing
C) By physical testing
- B) By ohm meter testing**
D) By voltage measurements (Incorrect)

24. Where does the depletion region exists in a bipolar transistor?

- A) Between emitter - base electrodes (Incorrect)
C) Between collector and emitter electrodes
- B) Between collector - base electrodes
D) Between E-B and B-C electrodes

25. In which quantity affects the Q point of a transistor amplifier?

- A) Decreased temperature
C) Proper biasing methods
- B) Increased temperature (Correct)**
D) Mismatching signals