

19. How much is the maximum load current of the negative voltage regulator IC 7912?

- A) 1.0 A
B) 1.5 A (Incorrect)
C) **2.0 A**
D) 0.55 A

20. What is the current rating of voltage regulator IC LM338K?

- A) 2A
B) 3A
C) 4A
D) **5A (Correct)**

21. Which method is followed to troubleshoot the problem causing section by the symptom?

- A) Step by step method
B) Sensory test method
C) Trial and error method
D) **Logical approach method (Correct)**

22. What is the current rating of voltage regulator IC LM317L?

- A) **0.1 A**
B) 0.2 A (Incorrect)
C) 0.3 A
D) 0.4 A

23. What is the range of output voltage of regulator IC LM 317?

- A) 0 to 25 V
B) 0 to 30 V
C) 0 to 32 V
D) **1.2 V to 32 V (Correct)**

24. Which type of voltage regulator is IC 723?

- A) Multipin variable voltage regulator
B) Three pin positive voltage regulator
C) Three pin negative voltage regulator (Incorrect)
D) **Three pin adjustable voltage regulator**

25. What is the common and popular application of U.J.T?

- A) Multivibrator (Incorrect)
B) Voltage regulator
C) **Relaxation oscillator**
D) Motor speed controller

26. What is the maximum forward gate current (I_g) for BFW10 JFET?

- A) 5 mA
B) 8 mA
C) **10 mA**
D) 20 mA (Incorrect)

27. What is the package type for BF 245B?

- A) TO-72
B) **TO-92 (Correct)**
C) TO-82
D) TO-102

28. How gate is biased in JFET?

- A) AC supply function
B) Forward biased (Incorrect)
C) **Reverse biased**
D) Dual supply function

29. What is the gate current (I_g) of the JFET, when reverse

biased?

- A) Practically very low (Incorrect)
B) **Practically zero**
C) Practically unity
D) Practically infinity

30. Which is the N - channel FET?

- A) AC supply connected to drain termin
B) **Main current flows through N-doped material**
C) Main current flows through P-doped material (Incorrect)
D) S-terminal connected to positive

31. Which is the package type for the JFET BFW10?

- A) TO-62
B) **TO-72**
C) TO-82
D) TO-92 (Incorrect)

32. What is the maximum drain- source voltage, V_{DS} for the JFET BF 245B?

- A) 10 V
B) 20 V
C) **30 V (Correct)**
D) 40 V

33. What is the term stands for TRIAC?

- A) Triode Alternate control
B) Triode DC semiconductor
C) **Triode AC semiconductor (Correct)**
D) Triode Access console

34. What is the maximum specified voltage for the TRIAC TIC 201D?

- A) 1.5 V
B) 1.7 V
C) 2.1 V
D) **2.5 V (Correct)**

35. What is the code number of TRIAC?

- A) 2N2646
B) BFW10
C) **BT136 (Correct)**
D) 2N1597

36. Which current flows in TRIAC between MT1 and MT2?

- A) Conventional current
B) **Principal current**
C) Reverse current
D) Leakage current (Incorrect)

37. What is the switching speed of solid state relays?

- A) 1 to 25 nano seconds
B) 10 to 60 nano seconds
C) **1 to 100 nano seconds (Correct)**
D) 1 to 100 milli seconds

38. What is the minimum current ratings of solid state relays available in low power packages?

- A) **Few micro Amperes**
B) 10 milli Ampere
C) 50 milli Ampere (Incorrect)
D) 100 milli Ampere

39. What is the full form of the abbreviation MOSFET?

- A) Minimum output signal FET B) Medium oscillator signal FET
C) **Metal oxide semiconductor FET (Correct)** D) Metal organic serial FET

40. What is the maximum blocking voltage of very high current handling IGBT modules?

- A) 440 V B) 1000 V
C) 5000 V (Incorrect) D) **6000 V**

41. What is the input impedance of IGBT?

- A) Low input impedance B) **High input impedance**
C) Medium input impedance D) Infinity input impedance (Incorrect)

42. What is the advantage of MOSFET?

- A) **Fast switching speed** B) Slow switching speed
C) Higher power gate signal D) Low thermal ionisation of electron-holes (Incorrect)

43. What is the advantage of MOSFET?

- A) Superior current conduction capability B) **Low gate signal power requirements**
C) Very low on-state voltage D) Low driving power (Incorrect)

44. What is the advantage of IGBT?

- A) It has low input impedance B) Low efficiency and slow switching
C) **High efficiency and fast switching (Correct)** D) IGBT is a gate current driven device

45. What is the advantage of IGBT?

- A) **Low driving power** B) Low gate signal power
C) Fast switching speed D) Used to isolate logic circuits (Incorrect)

46. What is the input impedance of IGBT?

- A) Low (Incorrect) B) **High**
C) Unity D) Infinity

47. Which is the property of IGBT?

- A) Low input impedance B) **High efficiency and fast switching**
C) Low gate signal D) Significant power consumption (Incorrect)

48. What is the main advantages of IGBT over BJT?

- A) Fast switching speed B) **Superior current conduction capability (Correct)**
C) Reverse bias secondary break downs D) Thermal limits are pushed to the edge

49. How many alternating layers are there in IGBT?

- A) 2 layers B) 3 layers (Incorrect)
C) **4 layers** D) Single layer

50. Which insulation layer is used in MOSFET?

- A) **Silicon-di-oxide** B) Arsenic material
C) Antimony material D) Germanium material (Incorrect)