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Score: 22/25 (88.00%)

Code: 4257

- How many transistors are built inside the Very Large Scale Integration (VLSI) IC package?
 - A) 1000 and above (Correct)**
 - B) 1 to 10 transistors
 - C) 10 to 100 transistors
 - D) 100 to 1000 transistors
- Which IC package consist of 100 to 1000 transistors?
 - A) Large scale integration (LSI) (Correct)**
 - B) Small scale integration (SSI)
 - C) Medium scale integration (MSI)
 - D) Very large scale integration (VLSI)
- Which is the 3 terminal, negative voltage regulator IC?
 - A) LM 320
 - B) LM 340
 - C) IC 7905 (Correct)**
 - D) IC 7812
- Which three terminal voltage regulator IC has adjustable output?
 - A) LM 100
 - B) LM 105
 - C) LM 305
 - D) LM 317 (Correct)**
- How much is the maximum load current of the negative voltage regulator IC 7912?
 - A) 1.0 A (Incorrect)
 - B) 1.5 A
 - C) 2.0 A**
 - D) 0.55 A
- What is the current rating of voltage regulator IC LM338K?
 - A) 2A
 - B) 3A
 - C) 4A
 - D) 5A (Correct)**
- 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)**
- Which type of voltage regulator is IC 723?
 - A) Multipin variable voltage regulator (Incorrect)
 - B) Three pin positive voltage regulator
 - C) Three pin negative voltage regulator
 - D) Three pin adjustable voltage regulator**
- Which component filter the ripples in the rectifier circuit?
 - A) DIAC
 - B) Diode
 - C) TRIAC
 - D) Capacitor (Correct)**
- Which parameter is maintained constant in zener diode?
 - A) Power
 - B) Current
 - C) Voltage (Correct)**
 - D) Resistance
- What is the meaning of maximum safe reverse voltage across a diode?
 - A) PIV voltage (Correct)**
 - B) Knee voltage
 - C) Break down voltage
 - D) Reverse break down voltage
- When does the zener diode begins to conduct in the reverse biased condition?
 - A) When bias voltage reached 0.7V
 - B) After the barrier voltage cancelled
 - C) Voltage across zener reached 0.3V
 - D) Voltage across it reached the zener voltage (Correct)**
- What is the output pulse frequency of the full wave rectifier with input frequency of 50 Hz?
 - A) 40 Hz
 - B) 60 Hz
 - C) 100 Hz (Correct)**
 - D) 200 Hz
- What is the maximum safe reverse voltage rating of a diode?
 - A) PIV voltage (Correct)**
 - B) Knee voltage
 - C) Break down voltage
 - D) Forward break down voltage
- Which is the first step followed in troubleshooting of electronic circuit?
 - A) Thermal test
 - B) Chemical test
 - C) Mechanical test
 - D) Physical and sensory test (Correct)**
- Which diode is used in low power communication circuits?
 - A) Signal diodes (Correct)**
 - B) Rectifier diodes
 - C) Switching diodes
 - D) High power diodes
- What is the disadvantage of the two diode full wave rectifier compared with a bridge rectifier?
 - A) More components
 - B) Higher ripple
 - C) Higher transformer utilization factor
 - D) Higher efficiency

- A) DC output level is higher
B) The ripple frequency is higher
C) Same frequency of the A/C input
D) Three times the input A/C frequency

C) The need of bulky transformer (Correct)
D) Each diode carries half the load current

18. What is the process of adding impurities to a pure semi conductor material?

- A) **Doping (Correct)**
B) Etching
C) Forming
D) Diffusion

19. Which impurity is added to form P - type semiconductor material?

- A) Arsenic
B) **Gallium (Correct)**
C) Antimony
D) Phosphorus

20. Which impurity is added to pure semiconductor to form N-type material?

- A) Boron
B) Indium
C) **Arsenic (Correct)**
D) Gallium

21. What is the output frequency of the pulsating DC in a two diode fullwave rectifier?

- A) Half of the input A/C frequency
B) **Double the input A/C frequency (Correct)**

22. What is the name of the process of converting AC into DC voltage?

- A) Inverting
B) **Rectifying (Correct)**
C) Amplifying
D) Demodulating

23. What is the effect on the output voltage in a bridge rectifier circuits, with one diode open?

- A) Very low voltage
B) No output DC voltage
C) Full output rated voltage
D) **Half of the rated output voltage (Correct)**

24. What is the peak to peak voltage in a bridge rectifier circuit with load current of 10 mA, capacitance of 470 F and 50 Hz supply frequency?

- A) **0.213 v (Correct)**
B) 1.525 v
C) 2.134 v
D) 3.567 v

25. What is the minimum current rating of four diode bridge rectifier to supply load current of 1.8 Amp?

- A) 0.9 Amp (Incorrect)
B) **1.8 Amp**
C) 2.0 Amp
D) 5.0 Amp