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Score: 5/25 (20.00%)

Code: 0931

1. How many transistors are built inside the Very Large Scale Integration (VLSI) IC package?

- A) **1000 and above**      B) 1 to 10 transistors  
 C) 10 to 100 transistors (Incorrect)      D) 100 to 1000 transistors

2. Which IC package consist of 100 to 1000 transistors?

- A) **Large scale integration (LSI)**      B) Small scale integration (SSI)  
 C) Medium scale integration (MSI) (Incorrect)      D) Very large scale integration (VLSI)

3. Which is the 3 terminal, negative voltage regulator IC?

- A) LM 320      B) LM 340  
 C) **IC 7905**      D) IC 7812 (Incorrect)

4. Which three terminal voltage regulator IC has adjustable output?

- A) LM 100      B) LM 105  
 C) LM 305      D) **LM 317 (Correct)**

5. 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

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

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

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

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

8. 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**

9. Which component filter the ripples in the rectifier circuit?

- A) DIAC      B) Diode  
 C) TRIAC      D) **Capacitor (Correct)**

10. Which parameter is maintained constant in zener diode?

- A) Power (Incorrect)      B) Current  
 C) **Voltage**      D) Resistance

11. What is the meaning of maximum safe reverse voltage across a diode?

- A) **PIV voltage**      B) Knee voltage (Incorrect)  
 C) Break down voltage      D) Reverse break down voltage

12. 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 (Incorrect)  
 C) Voltage across zener reached 0.3V      D) **Voltage across it reached the zener voltage**

13. 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**      D) 200 Hz (Incorrect)

14. What is the maximum safe reverse voltage rating of a diode?

- A) **PIV voltage**      B) Knee voltage  
 C) Break down voltage      D) Forward break down voltage (Incorrect)

15. Which is the first step followed in troubleshooting of electronic circuit?

- A) Thermal test (Incorrect)      B) Chemical test  
 C) Mechanical test      D) **Physical and sensory test**

16. Which diode is used in low power communication circuits?

- A) **Signal diodes**      B) Rectifier diodes  
 C) Switching diodes (Incorrect)      D) High power diodes

17. What is the disadvantage of the two diode full wave rectifier compared with a bridge rectifier?

A) DC output level is higher  
(Incorrect)

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**

D) Each diode carries half the load current

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

**A) Doping**

B) Etching (Incorrect)

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**

D) Gallium (Incorrect)

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**

C) Amplifying

D) Demodulating (Incorrect)

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 (Incorrect)

C) Full output rated voltage

**D) Half of the rated output voltage**

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**

B) 1.525 v

C) 2.134 v

D) 3.567 v (Incorrect)

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

A) 0.9 Amp

**B) 1.8 Amp (Correct)**

C) 2.0 Amp

D) 5.0 Amp