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Score: 10/25 (40.00%)

Code: 0718

1. 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

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) D) Very large scale integration (VLSI) (Incorrect)

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

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

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

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

5. 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

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

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

7. 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)**

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 D) **Three pin adjustable voltage regulator (Correct)**

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 B) Current
 C) **Voltage (Correct)** D) Resistance

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

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

12. When does the zener diode begins to conduct in the reverse biased condition?

- A) When bias voltage reached 0.7V (Incorrect) B) After the barrier voltage cancelled
 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 (Correct)** D) 200 Hz

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

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

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

- A) Thermal test B) Chemical test (Incorrect)
 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
B) The ripple frequency is higher
C) Same frequency of the A/C input (Incorrect)
D) Three times the input A/C frequency

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

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

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

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

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

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

- A) Boron (Incorrect)
B) Indium
C) **Arsenic**
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**

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 (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 (Incorrect)
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
B) **1.8 Amp (Correct)**
C) 2.0 Amp
D) 5.0 Amp