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Score: 20/25 (80.00%)

Code: 0112

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) (Correct)** B) Small scale integration (SSI)
 C) Medium scale integration (MSI) D) Very large scale integration (VLSI)

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

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

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
 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 (Incorrect) B) Three pin positive voltage regulator
 C) Three pin negative voltage regulator 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 B) Current
 C) **Voltage (Correct)** D) Resistance

11. 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

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
 C) Voltage across zener reached 0.3V D) **Voltage across it reached the zener voltage (Correct)**

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 (Correct)** B) Knee voltage
 C) Break down voltage D) Forward break down voltage

15. 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)**

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

- A) **Signal diodes (Correct)** B) Rectifier diodes
 C) Switching diodes 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
C) The need of bulky transformer (Correct)
- B) The ripple frequency is higher
D) Each diode carries half the load current
- C) Same frequency of the A/C input
D) Three times the input A/C frequency (Incorrect)
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18. What is the process of adding impurities to a pure semi conductor material?

- A) **Doping (Correct)**
C) Forming
- B) Etching
D) Diffusion
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19. Which impurity is added to form P - type semiconductor material?

- A) Arsenic
C) Antimony
- B) Gallium (Correct)**
D) Phosphorus
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20. Which impurity is added to pure semiconductor to form N-type material?

- A) Boron
C) Arsenic (Correct)
- B) Indium
D) Gallium
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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
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22. What is the name of the process of converting AC into DC voltage?

- A) Inverting
C) Amplifying
- B) Rectifying (Correct)**
D) Demodulating
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23. What is the effect on the output voltage in a bridge rectifier circuits, with one diode open?

- A) Very low voltage
C) Full output rated voltage
- B) No output DC voltage
D) Half of the rated output voltage (Correct)
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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)**
C) 2.134 v
- B) 1.525 v
D) 3.567 v
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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)
C) 2.0 Amp
- B) 1.8 Amp**
D) 5.0 Amp
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