

**Duration: 30 Mins**

**Total Marks: 25**

**Q.ID: ITISKILL4196QY**

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

- A) Diode  
C) DIAC
- B) TRIAC  
D) Capacitor

**Answer: D) Capacitor**

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

- A) Voltage across zener reached 0.3V  
C) Voltage across it reached the zener voltage
- B) After the barrier voltage cancelled  
D) When bias voltage reached 0.7V

**Answer: C) Voltage across it reached the zener voltage**

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

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

**Answer: C) 1000 and above**

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

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

**Answer: C) Signal diodes**

5. Which type of voltage regulator is IC 723?

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

**Answer: D) Three pin adjustable voltage regulator**

6. What is the output pulse frequency of the full wave rectifier with input frequency of 50 Hz?

- A) 200 Hz  
C) 60 Hz
- B) 100 Hz  
D) 40 Hz

**Answer: B) 100 Hz**

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

- A) Doping  
C) Etching
- B) Diffusion  
D) Forming

**Answer: A) Doping**

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

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

**Answer: A) Large scale integration (LSI)**

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

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

**Answer: D) Physical and sensory test**

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

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

**Answer: D) PIV voltage**

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

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

**Answer: D) IC 7905**

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

- A) 1.5 A  
C) 1.0 A
- B) 2.0 A  
D) 0.55 A

**Answer: B) 2.0 A**

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

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

**Answer: A) Logical approach method**

14. 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) 2.134 v  
C) 1.525 v
- B) 0.213 v  
D) 3.567 v

**Answer: B) 0.213 v**

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

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

**Answer: A) Half of the rated output voltage**

**16.** Which parameter is maintained constant in zener diode?

- A) Voltage      B) Current  
C) Resistance      D) Power

**Answer: A) Voltage**

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

- A) 1.8 Amp      B) 0.9 Amp  
C) 5.0 Amp      D) 2.0 Amp

**Answer: A) 1.8 Amp**

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

- A) Half of the input A/C frequency      B) Same frequency of the A/C input  
C) Three times the input A/C frequency      D) Double the input A/C frequency

**Answer: D) Double the input A/C frequency**

**19.** Which three terminal voltage regulator IC has adjustable output?

- A) LM 100      B) LM 105  
C) LM 305      D) LM 317

**Answer: D) LM 317**

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

- A) 4A      B) 3A  
C) 5A      D) 2A

**Answer: C) 5A**

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

- A) Gallium      B) Antimony  
C) Phosphorus      D) Arsenic

**Answer: A) Gallium**

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

- A) Inverting      B) Rectifying  
C) Amplifying      D) Demodulating

**Answer: B) Rectifying**

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

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

**Answer: C) PIV voltage**

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

- A) Each diode carries half the load current      B) The need of bulky transformer  
C) DC output level is higher      D) The ripple frequency is higher

**Answer: B) The need of bulky transformer**

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

- A) Boron      B) Gallium  
C) Arsenic      D) Indium

**Answer: C) Arsenic**