

Duration: 30 Mins

Total Marks: 24

Q.ID: ITISKILL8320PT

1. What is the current rating of voltage regulator IC LM317L?

- A) 0.4 A B) 0.1 A
C) 0.3 A D) 0.2 A

Answer: B) 0.1 A

2. What is the propagation delay of the standard TTL chip?

- A) 5 ns B) 8 ns
C) 10 ns D) 12 ns

Answer: C) 10 ns

3. Which IC is used for the function of 4 bit shift register?

- A) IC 7493 B) IC 7495
C) IC 7447 D) IC 7404

Answer: B) IC 7495

4. What is the maximum possible number of flip-flops in a decade counter?

- A) 2^{n+1} B) 3^n
C) 1^n D) 2^n

Answer: D) 2^n

5. What is the range of output voltage of regulator IC LM 317?

- A) 0 to 25 V B) 0 to 30 V
C) 0 to 32 V D) 1.2 V to 32 V

Answer: D) 1.2 V to 32 V

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

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

Answer: A) 1000 and above

7. How many inputs are available in the 7447 BCD-to-seven segment decoder used to drive the LED display?

- A) Seven B) Eight
C) One D) Four

Answer: D) Four

8. What is the use of flip - flop?

- A) It stores current B) It stores voltage
C) It stores binary information D) It stores energy

Answer: C) It stores binary information

9. Which IC is used for (DEMUX) function in data transmission?

- A) 74 LS 151 B) IC 7483
C) 74 LS 138 D) IC 7486

Answer: C) 74 LS 138

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

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

Answer: A) 2.0 A

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

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

Answer: D) Large scale integration (LSI)

12. 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

Answer: D) Logical approach method

13. What is the power dissipation of the standard TTL chip?

- A) 15 mW/gate B) 20 mW/gate
C) 10 mW/gate D) 5 mW/gate

Answer: C) 10 mW/gate

14. What is the digital signal value for the analog signal value 6V?

- A) 101 B) 110
C) 100 D) 111

Answer: B) 110

15. What is the information stored in digital registers?

- A) Decimal values B) Alphanumeric values
C) Binary values D) Analog values

Answer: C) Binary values16. What is the decimal conversion number for the octal number (2374)₈?

- A) (1286)₁₀ B) (1266)₁₀
C) (1296)₁₀ D) (1276)₁₀

Answer: D) (1276)10

17. What is the purpose of using IC74LS190?

- A) Attenuator
- B) Comparator
- C) Up/down counter
- D) Modulator

Answer: C) Up/down counter

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

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

Answer: D) LM 317

19. Which circuits requires the flip - flops for their operation?

- A) Memory circuits
- B) Oscillator circuits
- C) Amplifier circuits
- D) Modulator circuits

Answer: A) Memory circuits

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

- A) 5A
- B) 4A
- C) 3A
- D) 2A

Answer: A) 5A

21. What is the power supply required to operate the most standard TTL ICs properly?

- A) + 4.75v to + 5.25V
- B) + 7.5v to + 12V
- C) - 1.5v to - 2.5V
- D) + 1.5v to +2.5V

Answer: A) + 4.75v to + 5.25V

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

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

Answer: B) IC 7905

23. What is the decimal number for the binary number 0101?

- A) 6
- B) 7
- C) 4
- D) 5

Answer: D) 5

24. Which type of voltage regulator is IC 723?

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

Answer: D) Three pin adjustable voltage regulator