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Score: 22/24 (91.67%)

Code: 3443

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

- A) One
B) **Four (Correct)**
C) Seven
D) Eight

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

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

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

- A) 5 ns
B) 8 ns
C) **10 ns (Correct)**
D) 12 ns

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

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

5. What is the decimal conversion number for the octal number (2374)₈?

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

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

- A) 100
B) 101
C) **110 (Correct)**
D) 111

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

- A) 4
B) **5 (Correct)**
C) 6
D) 7

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

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

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

- A) Amplifier circuits
B) Oscillator circuits
C) Modulator circuits
D) **Memory circuits (Correct)**

10. What is the use of flip - flop?

A) It stores energy

C) It stores current

B) It stores voltage

D) It stores binary information (Correct)

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

- A) 1
B) **2 (Correct)**
C) 2
D) 3

12. What is the purpose of using IC74LS190?

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

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

- A) IC 7404
B) IC 7447
C) IC 7493
D) **IC 7495 (Correct)**

14. What is the information stored in digital registers?

- A) Analog values
B) **Binary values (Correct)**
C) Decimal values
D) Alphanumeric values

15. 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

16. 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)

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

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

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

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

19. 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

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

A) 2A

B) 3A

C) 4A

D) 5A (Correct)

21. 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)

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

A) 0.1 A (Correct)

B) 0.2 A

C) 0.3 A

D) 0.4 A

23. 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 (Correct)

24. 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