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Sri Mahalingeswara ITI

Answer Key

Duration: 30 Mins

Total Marks: 24

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1. Which is the fastest A/D conversion techniques?

- A) Absolute conversion accuracy
 B) Absolute conversion accuracy
 C) Low speed data acquisition applies
 D) High to medium speed data acquisition applies

Answer: A) Absolute conversion accuracy

2. What is successive approximation (SAR)?

- A) Method of IC fabrication
 B) Method of SMT
 C) Method of D/A conversion
 D) Method of D/A conversion

Answer: C) Method of D/A conversion

3. How the pass band gain of the circuit is expressed?

- A) In hertz
 B) In hertz
 C) In volts
 D) In ampere

Answer: A) In hertz

4. What is the name of the ratio of ON-time pulse to the OFF-time pulse of multivibrator?

- A) Pulse repetition
 B) Pulse repetition
 C) Threshold comparator
 D) Control voltage

Answer: A) Pulse repetition

5. What is the expansion of PRF related to frequency?

- A) Pulse repetition frequency
 B) Pulse repetition frequency
 C) Pulse probability frequency
 D) Power regulated frequency

Answer: A) Pulse repetition frequency

6. Which is the major factor determines the quality performance of A/D converter?

- A) Depends on data latch
 B) Conversion cycle
 C) Measuring parameter
 D) Measuring parameter

Answer: C) Measuring parameter

7. How many operational amplifiers are fabricated in the LM741 IC?

- A) Two Op-Amps
 B) Two Op-Amps
 C) Four Op-Amps
 D) One Op-Amp

Answer: D) One Op-Amp

8. Which mode is used in differential amplifier?

- A) Common - mode operation
 B) Common base
 C) Common emitter
 D) Common emitter

Answer: A) Common - mode operation

9. Which circuit uses the F to V converter section?

- A) Digital frequency meter circuit
 B) Digital frequency meter circuit
 C) Up/down counter circuit
 D) Schmitt trigger circuit

Answer: A) Digital frequency meter circuit

10. Which is the output pin number IC 555 timer?

- A) Pin number 5
 B) Pin number 5
 C) Pin number 3
 D) Pin number 6

Answer: C) Pin number 3

11. Rate of change of input voltage

- A) Rate of change of input voltage
 B) Rate of change of output frequency
 C) Rate of change of output voltage
 D) Rate of change of output voltage

Answer: C) Rate of change of output voltage

12. What is the function of astable multivibrator in timer IC 555?

- A) Acting as transducers
 B) Serving as comparator
 C) Serving as an oscillator
 D) Serving as an oscillator

Answer: C) Serving as an oscillator

13. What is the limitation of integrated circuits?

- A) Increased reliability
 B) Greater flexibility
 C) Greater flexibility
 D) Drains more current

Answer: B) Greater flexibility

14. Which process the ICS are made?

- A) Micro photo - lithographic process
 B) Point contact junction process
 C) Point contact junction process
 D) Grown junction process

Answer: A) Micro photo - lithographic process

15. What is the output produced in the ADC circuit?

- A) Triangular wave output
 B) Triangular wave output
 C) Sinewave output
 D) Analog output

Answer: A) Triangular wave output

16. What is the function of pin number 2 of IC 555 timer circuit?

- A) "+VCC"
- B) Reset
- C) Trigger
- D) Trigger

Answer: C) Trigger

17. What is the use of schmitt trigger circuit?

- A) AC to DC converter
- B) AC to DC converter
- C) Electronic thermostant
- D) Voltage regulator

Answer: A) AC to DC converter

18. What is the important feature of instrumentation amplifier?

- A) Increase the output voltage
- B) Low gain accuracy
- C) Low gain accuracy
- D) Reduce the output off set voltage

Answer: B) Low gain accuracy

19. How many Op-Amps are fabricated inside the LM 324 IC pack?

- A) Three Op-Amps
- B) Three Op-Amps
- C) Five Op-Amps
- D) Two Op-Amps

Answer: A) Three Op-Amps

20. Which is the major factor determines the quality performance of A/D converter?

- A) Conversion cycle
- B) Depends on data latch
- C) Measuring parameter
- D) Measuring parameter

Answer: C) Measuring parameter

21. Which is the major factor to determine the quality performance of A/D converter?

- A) Proportional to the binary weight
- B) Degree of accuracy
- C) Number of bits used
- D) Number of bits used

Answer: C) Number of bits used

22. What is the function of pin number 4 of the IC 555?

- A) Reset
- B) Reset
- C) Set
- D) Threshold

Answer: A) Reset

23. What is the maximum power dissipation for a 555 IC?

- A) Below 500 mW
- B) Exactly 300 Mw
- C) Exactly 300 Mw
- D) Above 800 mW

Answer: B) Exactly 300 Mw

24. What is characteristics of instrumentation amplifier?

- A) Infinity output impedance
- B) High input impedance
- C) High input impedance
- D) Low input impedance

Answer: B) High input impedance