

Duration: 30 Mins

Total Marks: 20

Q.ID: ITISKILL1371WY

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

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

Answer: A) Absolute conversion accuracy

2. Which mode is used in differential amplifier?

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

Answer: C) Common - mode operation

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 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

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

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

Answer: C) Three Op-Amps

6. What is characteristics of instrumentation amplifier?

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

Answer: C) High input impedance

7. What is successive approximation (SAR)?

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

Answer: A) Method of D/A conversion

8. Rate of change of input voltage

- A) Rate of change of input voltage
- B) Rate of change of output voltage

- C) Rate of change of output voltage
- D) Rate of change of output frequency

Answer: B) Rate of change of output voltage

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

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

Answer: A) Triangular wave output

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

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

Answer: C) Trigger

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

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

Answer: A) Measuring parameter

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

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

Answer: A) Measuring parameter

13. 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

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

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

Answer: B) Pulse repetition

15. 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

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

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

Answer: A) Reset

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

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

Answer: B) Number of bits used

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

- A) Schmitt trigger circuit
- B) Digital frequency meter circuit

- C) Digital frequency meter circuit
- D) Up/down counter circuit

Answer: B) Digital frequency meter circuit

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

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

Answer: A) Serving as an oscillator

20. What is the important feature of instrumentation amplifier?

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

Answer: C) Low gain accuracy