

Duration: 30 Mins

Total Marks: 20

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Student Name: _____ Roll No: _____

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

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

- A) Trigger
C) Reset

- B) Trigger
D) "+VCC"

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

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

10. Rate of change of input voltage

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

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

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

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

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

4. 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

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

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

5. 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

13. Which mode is used in differential amplifier?

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

6. What is successive approximation (SAR)?

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

14. 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

7. What is characteristics of instrumentation amplifier?

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

15. 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

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

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

16. 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) Control voltage
D) Threshold comparator

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

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

- A) Sinewave output
B) Analog output

C) Triangular wave output D) Triangular wave output

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

- A) Serving as an oscillator B) Serving as an oscillator
C) Serving as comparator D) Acting as transducers
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19. 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

20. What is the important feature of instrumentation amplifier?

A) Reduce the output offset voltage

B) Low gain accuracy

C) Low gain accuracy

D) Increase the output voltage
