

1. Self-generating type transducers are _____ transducers.
a) Active b) Passive c) Secondary d) Inverse
2. Which of the following is a digital transducer?
a) Strain Gauge b) Encoder c) Thermistor d) LVDT
3. Isolation amplifiers are also called as _____.
a) DC amplifiers b) Output amplifier c) Inverting amplifier d) Iso-amps
4. CMRR is more in _____.
a) Single ended amplifier b) Differential amplifier
c) Inverting operational amplifier d) Chopper amplifier
5. In X-Y recorders, the self-balancing potentiometers plot emf as a function of _____.
a) Another emf b) Frequency c) Time d) Pressure
6. Stress and strain curves are plotted using _____.
a) Magnetic tape recording b) X-Y recording
c) Galvanometric d) PMMC writing systems
7. Which of the following can be measured with the help of piezo electric crystal?
a) Force b) Velocity c) Sound d) Pressure
8. Piezo-electric transducers are _____.
a) Passive transducers b) Inverse transducers
c) Digital transducers d) Pulse transducers
9. _____ fiber is used in interferometric instruments.
a) Monomode b) Multimode c) Birefringent d) Coated
10. Fiber Optic sensor can be used to sense _____.
a) Displacement b) Power c) Current d) Resistance
11. Venturi is associated with _____.
a) venous blood pressure b) Digital plethysmography
c) Dialysate flow in artificial kidney d) Blood flow in heart lung machine.
12. Pulse communication system that is inherently highly immune to noise is _____.
a) PCM b) PAM c) PPM d) PAM
13. One of the following is tracking radar.
a) Monostatic radar b) Bistatic radar
c) Monopulse radar d) Secondary surveillance radar.
14. A dynamometer Wattmeter is connected in AC Circuit. The reading will be

- a) V-A Product b) average power
c) peak Power d) instantaneous power

15. Loss of charge method is suitable for medium resistances.

- a) True
- b) False
16. The decibel is a measure of
- a) Current b) Voltage c) Power d) Power level

17. If the current gain of the amplifier is X , its voltage gain is Y , then its power gain will be

- a) X/Y b) $X*Y$ c) $X+Y$ d) $X-Y$

18. The amplifier which has no drift is called as

- a) Differential amplifier
b) DC amplifier
c) Single ended amplifier
d) Chopper amplifier

19. A recorder is said to have good frequency response when the sensitivity of the system is _____ for all frequencies present in the signal.

- a) Unity b) Zero c) Infinity d) Constant

20. Storage oscilloscope operates on the principle of

- a) Primary emission b) Deflection c) Secondary emission d) Diffusion

21. Feedback in an amplifier always helps in

- a) Increasing its input impedance b) Increasing its gain
c) Controlling its output d) Stabilizes its gain

22. For biomedical applications the mostly used amplifier is

- a) Single ended amplifier
b) Differential amplifier
c) Inverting operational amplifier
d) Chopper amplifier

23. The CMRR of a typical IC OPAMP is

- a) 70 dB b) 80 dB c) 85 dB d) 75 dB

24. A _____ is usually a display device used to produce a paper record of analog wave form.

- a) Graphic pen recorder
b) Electron microscope
c) X-Y recorder
d) Oscilloscope

25. The difference between the measured value and the true value is called as:

- a) Relative error b) Absolute error c) Gross error d) Probable error

26. Potentiometer is basically a _____ instrument

- a) Digital b) Deflecting type c) Null type d) Recording

27. The synchroscope is an instrument for:

- a) Checking the voltage of the two circuits
b) Checking of phase sequence of the two circuits
c) Indicating the differences of phases and frequencies of two circuits
d) Checking the power factor of the two circuits
28. The resistance of a semiconductor _____ with temperature.
a) increases b) decreases c) can't say d) none of the above
29. A circuit made up of combinations of logic gates, with no feedback from output to input.
a) Sequential logic circuit b) Combinational logic Circuit
c) Clocked circuits d) Asynchronous circuit
30. Which of the following has highest input impedance
a) FET b) BJT c) MOSFET d) Crystal diode
31. What are in the depletion region?
a) Positive and negative ions b) Minority carriers
c) Majority Carriers d) All of the choices
32. The specific gravity of a lead-acid battery is a measure of its _____.
a) Battery life b) Operating temperature
c) State of charge d) rate of discharge
33. Avalanche breakdown is primarily dependant on the phenomenon of _____.
a) Doping b) Collision c) Recombination d) Ionization
34. Determine which item is not a storage device
a) Card readers b) CD-ROM c) Diskettes d) Magnetic tape
- 35) What instrument is used for measuring radio frequency (rf) power?
a) Thermocouple ammeter b) Barretter
c) Strobotac d) Thermistor
36. Which one of the following is not a prime number?
a) 31 b) 61 c) 71 d) 91
37. How many of the following numbers are divisible by 132 ?
264, 396, 462, 792, 968, 2178, 5184, 6336
a) 4 b) 5 c) 6 d) 7
38. The sum of all two digit numbers divisible by 5 is
a) 1035 b) 1245 c) 1230 d) 945
39. Odd man out: 8, 27, 64, 100, 125, 216, 343
a) 27 b) 100 c) 125 d) 343

40. A man can row at 5 kmph in still water. If the velocity of current is 1 kmph and it takes him 1 hour to row to a place and come back, how far is the place?

- a) 2.4Km b) 2.5Km c) 3Km d) 3.6Km

41. Which word does NOT belong with the others?

- a) Tulip b) Rose c) Bud d) Daisy

42. CMM, EOO, GQQ, _____, KUU

- a) GRR b) GSS c) ISS d) ITT

43. P₅QR, P₄QS, P₃QT, _____, P₁QV

- a) PQW b) PQV₂ c) P₂QU d) PQ₃U

44. Cup is to coffee as bowl is to

- a) dish b) soup c) spoon d) food

45) Arrange the words given below in a meaningful sequence.

1. Key 2. Door 3. Lock

4. Room 5. Switch on

- a) 5, 1, 2, 4, 3 b) 4, 2, 1, 5, 3 c) 1, 3, 2, 4, 5 d) 1, 2, 3, 5, 4

46. If FRIEND is coded as HUMJTK, how can CANDLE be written in that code?

- a) DEQJQM b) DCQHQQ c) EDRIRL d) ESJFME

47) If ZEBRA can be written as 2652181, how can COBRA be written?

- a) 302181 b) 3152181 c) 31822151 d) 1182153

48) Man : Biography : : Nation : ?

- a) History b) Geography c) People d) Leader

49) A and B are young ones of C. If C is the father of A but B is not the son of C. How are B and C related ?

- a) Niece and uncle b) Daughter and father
c) Niece and mother d) Daughter and mother

50) 2Z5, 7Y7, 14X9, 23W11, 34V13,..... ?

- a) 27U24 b) 47U15 c) 45U15 d) 47V14