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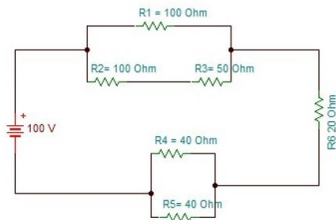
भारतीय अंतरिक्ष अनुसंधान संगठन
Indian Space Research Organisation



Participant ID	
Participant Name	
Test Center Name	
Test Date	04/06/2022
Test Time	12:30 PM - 2:30 PM
Subject	Electronics and Instrumentation Engineering(E and IE)

Section : Electronics and Instrumentation Engineering E and IE

Q.1 For the circuit shown, current through resistor R6 is



- A. 1 A
- B. 420 mA
- C. 750 mA
- D. 350 mA

Ans A. A

B. B

C. C

D. D



Question ID : 5834935087
Status : Answered
Chosen Option : A

Q.2 $\epsilon_0 =$

- A. $8.854 \times 10^{-12} \text{ F/m}$
- B. $8.854 \times 10^{-12} \text{ Fm}$
- C. $8.854 \times 10^{-12} \text{ Fm}^2$
- D. $8.854 \times 10^{-12} \text{ F/m}^2$

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935050
Status : Answered
Chosen Option : A

Q.3 Assertion (A): The precision instruments are always accurate.

Reason (R): A precision instrument is one where the degree of reproducibility of the measurement is very good.

Which of the following is correct?

- A. Both A and R are true and R is correct explanation of A
- B. Both A and R are true but R is not correct explanation of A
- C. A is true but R is false
- D. A is false but R is true

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935088
Status : Answered
Chosen Option : D

Q.4 Gauge factor of a strain gauge is

- A. $(dR/dL) \times (L/R)$
- B. $(dL/dR) \times (R/L)$
- C. $(dL/dR) \times (L/R)$
- D. (dR/dL)

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935048
Status : Answered
Chosen Option : A

Q.5 The delay in response of a measuring system is

- A. Speed of response
- B. Lag
- C. Fidelity
- D. Error

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935054
Status : Answered
Chosen Option : B

Q.6 Which of the following truly represents the Thevenin's equivalent circuit when a voltage source of 24 V undergoes a voltage drop of 0.6 V due to a load current of 1 A?

- A. $V_{th}=24\text{ V}$ $R_{th}=0.6\ \Omega$
- B. $V_{th}=24\text{ V}$ $R_{th}=24\ \Omega$
- C. $V_{th}=23.4\text{ V}$ $R_{th}=0.6\ \Omega$
- D. $V_{th}=23.4\text{ V}$ $R_{th}=23.4\ \Omega$

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935084
Status : Answered
Chosen Option : C

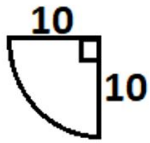
Q.7 If both the junctions of a transistor are forward biased, it will be in

- A. Saturation mode
- B. Action mode
- C. Cut-off mode
- D. None of these

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935061
Status : Answered
Chosen Option : A

Q.8 Find the area of the shape



- A. 100π
- B. 25π
- C. 50π
- D. 75π

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935091
Status : Answered
Chosen Option : B

Q.9 If an armature voltage-controlled circuit, the firing angle of the thyristor is decided by the

- A. Phase control circuit
- B. Thyristor bridge
- C. Comparator
- D. Error amplifier

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935070
Status : Answered
Chosen Option : A

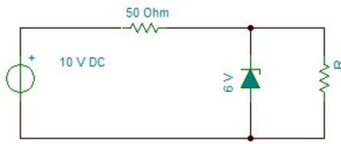
Q.10 In an orifice flow meter β ratio is

- A. Inside diameter of the pipe / Diameter of restriction
- B. Diameter of restriction / Inside diameter of the pipe
- C. Outside diameter of the pipe / Inside Diameter of the pipe
- D. Diameter of the restriction / Outside diameter of the pipe

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935034
Status : Answered
Chosen Option : A

- Q.11** The 6 V Zener diode shown in figure has zero Zener resistance and a knee current of 5 mA.
The minimum value of R so that the voltage across it does not fall below 6 V is



- A. 1.2 K Ω
- B. 80 Ω
- C. 50 Ω
- D. 0 Ω

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935065
Status : Answered
Chosen Option : B

- Q.12** The Capacity of the rotameter can be changed by changing the

- A. Pressure
- B. Flow rate
- C. Float
- D. Density

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935023
Status : Answered
Chosen Option : C

- Q.13** T-type thermocouple is combination of

- A. Iron – Constantan
- B. Copper- Constantan
- C. Platinum -Rhodium
- D. Chromel – Alumel

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935099
Status : Answered
Chosen Option : B

Q.14 Flow meter which offers least resistance to fluid flow

- A. Venturi tube
- B. Orifice flow meter
- C. Vertex flow meter
- D. All the above

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935027
Status : Answered
Chosen Option : C

Q.15 Assertion (A): The Digital to Analog Converter cannot be interfaced to microprocessor in an interrupt driven mode

Reason (R): Digital to Analog Converter neither needs a start convert pulse nor it has indication of conversion

Which of the following is correct?

- A. Both A and R are true and R is correct explanation of A
- B. Both A and R are true but R is not correct explanation of A
- C. A is true but R is false
- D. A is false but R is true

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935080
Status : Not Answered
Chosen Option : --

Q.16 Twisted pair conductors inherently reduces/ cancels;

- A. Normal mode noise
- B. Common mode noise
- C. Ringing noise
- D. Audio interference noise

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935037
Status : Answered
Chosen Option : D

Q.17 Consider the following statements

1. Low pass filter
2. Signal transmission medium
3. Amplifier
4. Digital to Analog Converter
5. Analog to Digital Converter

Which one of the following sequences is the correct sequence for effective signal reconstruction in a data acquisition and processing scheme?

- A. 1-3-5-2-4
- B. 3-1-5-2-4
- C. 1-5-3-2-4
- D. 3-5-1-4-2

Ans A. A

B. B

C. C

D. D

Question ID : 5834935077

Status : Answered

Chosen Option : B

Q.18 A temperature transmitter with thermocouple configuration is re-configured for 4 wire RTD for a range of 0-100 °C with 4-20 mA output. What will be output of transmitter at 50°C with $\alpha=0.00385$ ohms per degree centigrade change?

- A. 8 mA
- B. 10 mA
- C. 12 mA
- D. 14 mA

Ans A. A

B. B

C. C

D. D

Question ID : 5834935044

Status : Answered

Chosen Option : B

Q.19 The function $F=ABC'+ABC+A'BC+A'BC'$ can be reduced to which one of the following?

- A. $F=A$
- B. $F=AB$
- C. $F=ABC$
- D. $F=B$

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834935082**
Status : **Answered**
Chosen Option : **D**

Q.20 For a digital input of 1001, the output is 9 mV. Then for a digital input of 1100, the analog output will be

- A. 9 mV
- B. 10.5 mV
- C. 12 mV
- D. None of these

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834935075**
Status : **Answered**
Chosen Option : **C**

Q.21 Programmable logic controller works on which mechanism?

- A. Parallel mechanism
- B. Sequential mechanism
- C. Both (A) and (B)
- D. None

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834935043**
Status : **Answered**
Chosen Option : **C**

Q.22 The horizontal range of a projectile fired at an angle of 15° is 50m. If it is fired with the same speed at an angle of 45° , its range will be,

- A. 60 m
- B. 71 m
- C. 100 m
- D. 141 m

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935097
Status : Not Answered
Chosen Option : --

Q.23 A Darlington pair is mainly used for

- A. Impedance matching
- B. Wide band voltage amplification
- C. Power amplification
- D. Reducing distortion

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935071
Status : Answered
Chosen Option : A

Q.24 What is the Boolean expression $A \oplus B$ equivalent to?

- A. $AB+(AB)'$
- B. $A'B+AB'$
- C. B
- D. A'

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935074
Status : Answered
Chosen Option : B

Q.25 In a pitot static tube, assuming a steady one-dimensional flow of an incompressible fluid
flow velocity $V =$

- A. $\sqrt{2 (P_{\text{Stagnation}} + P_{\text{Static}}) / \rho}$
- B. $\sqrt{2 (P_{\text{Stagnation}} - P_{\text{Static}}) / \rho}$
- C. $\sqrt{2 \rho / (P_{\text{Stagnation}} + P_{\text{Static}})}$
- D. $\sqrt{2 (P_{\text{Static}} - P_{\text{Stagnation}}) / \rho}$

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935031
Status : Answered
Chosen Option : A

Q.26 The transfer function of a PI controller is

- A. $K_p + K_i S$
- B. $K_p + (K_i / S)$
- C. $(K_p / S) + K_i S$
- D. $K_p S + (K_i / S)$

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935049
Status : Answered
Chosen Option : B

Q.27 Scan time is the time taken by the PLC to

- A. Read the inputs
- B. Execute the logics
- C. Write the outputs
- D. All of the above

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935052
Status : Answered
Chosen Option : D

Q.28 The impurity commonly used for realizing the base region of a silicon NPN transistor is

- A. Gallium
- B. Indium
- C. Boron
- D. Phosphorous

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834935062**
Status : **Answered**
Chosen Option : **C**

Q.29 In a cascaded amplifier the overall gain of the amplifier is

- A. Product of individual amplifiers in the configuration
- B. Equal to the last stage gain of the amplifier
- C. Sum of all stage gain
- D. None of the above

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834935063**
Status : **Answered**
Chosen Option : **A**

Q.30 A 0-100 Voltmeter has 200 Scale divisions which can read to $\frac{1}{2}$ division. Determine the resolution of the meter in volts.

- A. 0.5 V
- B. 0.75 V
- C. 0.25 V
- D. 1 V

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834935057**
Status : **Answered**
Chosen Option : **C**

Q.31 What is the output of the following snippet?

```
Int main ()  
{  
Int sum = 10 + 12 / 6 + 6 x 3;  
Printf ("%d", sum);  
Return 0;  
}
```

- A. 30
- B. 40
- C. 50
- D. 60

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935041

Status : Answered

Chosen Option : A

Q.32

$\frac{LC}{6}$

P&ID Symbol indicates

- A. Liquid column
- B. Liquid Container
- C. Level Controller
- D. Level Container

Ans A. A
 B. B
 C. C
 D. D



Question ID : 5834935039

Status : Answered

Chosen Option : C

Q.33 Instrument used for very low pressure is

- A. Manometer
- B. Barometer
- C. Mcleod Gauge
- D. Multimeter

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935024
Status : Answered
Chosen Option : C

Q.34 The internationally accepted reference standard is called _____

- A. Unit
- B. Measurement
- C. Both A & B
- D. None

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935094
Status : Answered
Chosen Option : A

Q.35 The operation of the heat transfer flow meter is based on

- A. $Q = W.C_P (T_2 - T_1)$
- B. $Q = W.C_P (T_2 + T_1)$
- C. $Q = W (T_2 - T_1)$
- D. $Q = W (T_2 + T_1)$

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935030
Status : Answered
Chosen Option : A

Q.36 Dynamic range for a linear n-bit Digital to Analog Converter is

- A. $20 \log(2^n)$
- B. $10 \log(2^n)$
- C. $2^n - 1$
- D. 0

Ans A. A

B. B

C. C

D. D

Question ID : **5834935079**
Status : **Not Answered**
Chosen Option : --

Q.37 In a K-map, a group of eight adjacent ones leads to a term with less than the total number of variables of

- A. One
- B. Two
- C. Three
- D. Four

Ans A. A

B. B

C. C

D. D

Question ID : **5834935073**
Status : **Answered**
Chosen Option : **D**

Q.38 If $(84)_x$ (in base-x number system) is equal to $(64)_y$ (in base-y number system), then possible values of x and y are

- A. 12, 9
- B. 6, 8
- C. 9, 12
- D. 12, 18

Ans A. A

B. B

C. C

D. D

Question ID : **5834935072**
Status : **Answered**
Chosen Option : **B**

Q.39 A dam has usable height of 20m and water was available up to 15-meter height. What will be the pressure the bottom of the dam? Consider $g=10 \text{ m/s}^2$ and density = 10^3 Kg/m^3 .

- A. 150 KPa
- B. 200 KPa
- C. 100 KPa
- D. 50 KPa

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935060
Status : Answered
Chosen Option : D

Q.40 An object with temperature co-efficient of resistance has a value of 300, its initial resistance is 25Ω at 50°C . For an increase in 50° to 60° , what will be the final resistance value?

- A. $75 \text{ K}\Omega$
- B. 75Ω
- C. $25 \text{ K}\Omega$
- D. 25Ω

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935036
Status : Answered
Chosen Option : A

Q.41 A zero to 300 V voltmeter has an error of $\pm 2\%$ of the full scale deflection. If the true voltage is 30 V, then the range of readings on this voltmeter would be

- A. 20 V to 40 V
- B. 24 V to 36 V
- C. 29.4 V to 30.6 V
- D. 29.94 V to 30.6 V

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935089
Status : Answered
Chosen Option : B

Q.42 Thermocouples used in nuclear reactor is

- A. Boron
- B. Beryllium
- C. Copper
- D. Nickel

Ans A. A

B. B

C. C

D. D

Question ID : 5834935101

Status : Answered

Chosen Option : C

Q.43 In water, light travels at a speed, $v_w=2.26 \times 10^8$ m/s. But the speed of light in vegetable oil is $v_o=2.04 \times 10^8$ m/s. What is the refractive index of water with respect to vegetable oil, n_{wo} ?

- A. $n_{wo} = 1.11$
- B. $n_{wo} = 0.903$
- C. $n_{wo} = 1.33$
- D. $n_{wo} = 0.753$

Ans A. A

B. B

C. C

D. D

Question ID : 5834935095

Status : Answered

Chosen Option : A

Q.44 What is the standard form of CRC?

- A. Cyclic Redundancy Check
- B. Code Redundancy Check
- C. Cyclic Redundancy Code
- D. Code Redundancy Count

Ans A. A

B. B

C. C

D. D

Question ID : 5834935046

Status : Answered

Chosen Option : A

Q.45 PLC timer whose timing value is not reset by loss of power is

- A. ON delay timer
- B. OFF delay timer
- C. Non-retentive timer
- D. Retentive timer

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935042
Status : Answered
Chosen Option : D

Q.46 LM35 is a

- A. Pressure sensor
- B. Temperature sensor
- C. Humidity sensor
- D. Touch sensor

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935033
Status : Not Answered
Chosen Option : --

Q.47 The line containing process fluid that run between instrument and process is called as

- A. Static line
- B. Dynamic line
- C. Impulse line
- D. Pipe

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935029
Status : Not Answered
Chosen Option : --

Q.48 Let the universal set "U" be the set of students who appeared for the exam. Let A be the set of students who failed the exam. Find A'

- A. Set of students who did not appear for the exam
- B. Set of students who passed the exam
- C. Set of students who failed the exam
- D. Set of students who terribly failed in the exam

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935090
Status : Answered
Chosen Option : B

Q.49 Which flow meter works on faradays law

- A. Turbine
- B. Ultrasonic
- C. Electromagnetic
- D. Orifice

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935025
Status : Answered
Chosen Option : C

Q.50 The value of temperature at which both °C and °F are same

- A. -20°
- B. 20°
- C. -40°
- D. 40°

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935053
Status : Answered
Chosen Option : A

Q.51 In which one of the following types of ADC's the conversion time is practically independent of the amplitude of the analog signal.

- A. The dual slope integrating type
- B. Successive approximation type
- C. Counter ramp type
- D. Tracking type

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935081
Status : Answered
Chosen Option : B

Q.52 Relaxation Oscillator form is basis of _____ waveform.

- A. Sinusoidal waveform generation
- B. Triangular waveform generation
- C. Square waveform generation
- D. None of the above

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935064
Status : Answered
Chosen Option : B

Q.53 A strain gauge is attached to a bar of length 20 cm which is subjected to a tensile force. The nominal resistance of strain gauge is 100Ω . The change in resistance and elongation in the bar measured are 0.35Ω and 0.2 mm respectively. The gauge factor of the strain gauge is

- A. 2
- B. 3.5
- C. 10
- D. 100

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935032
Status : Answered
Chosen Option : B

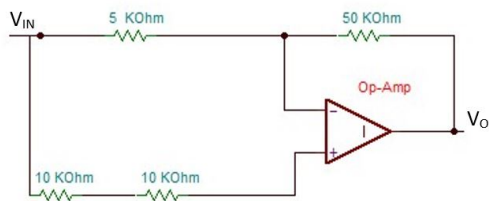
Q.54 A control system composed of two loops where the set point of the inner loop is the output of the controller of the outer loop is a

- A. Cascade control
- B. Ratio control
- C. Floating control
- D. Split range control

Ans ✓ A. A
✗ B. B
✗ C. C
✗ D. D

Question ID : 5834935038
Status : Answered
Chosen Option : A

Q.55 The value of the output voltage in the circuit shown below with $V_{IN} = 1\text{ V}$ is



- A. 1 V
- B. 21 V
- C. 10 V
- D. None of the above

Ans ✓ A. A
✗ B. B
✗ C. C
✗ D. D

Question ID : 5834935068
Status : Not Answered
Chosen Option : --

Q.56 Mcleod gauge working principle is

- A. Pascal's Law
- B. Charles's law
- C. Boyle's Law
- D. Ohms Law

Ans A.A
 B.B
 C.C
 D.D

Question ID : 5834935100
Status : Answered
Chosen Option : B

Q.57 For 'n' readings in a measurement system, how to calculate arithmetic mean \bar{x}

- A. $\bar{x}=(x_1^2+x_2^2+\dots+x_n^2)/n$
- B. $\bar{x}=(x_1+x_2+\dots+x_n)/n$
- C. $\bar{x}=(x_1+x_2+\dots+x_n)/(n-1)$
- D. None of Above

Ans A.A
 B.B
 C.C
 D.D

Question ID : 5834935058
Status : Answered
Chosen Option : B

Q.58 A temperature reading is recorded as 23.25° C. The reading has

- A. Two significant figures
- B. Three significant figures
- C. Four significant figures
- D. None of the above

Ans A.A
 B.B
 C.C
 D.D

Question ID : 5834935055
Status : Answered
Chosen Option : B

Q.59 In a BJT transistor to maintain a fixed operating point, the bias stabilisation/compensation is achieved by using

- A. Diode Compensation
- B. Resistor Compensation
- C. Thermistor Compensation
- D. Both diode and Thermistor compensation

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935069
Status : Answered
Chosen Option : D

Q.60 ON-OFF keying is used in which type of modulation?

- A. ASK
- B. BPSK
- C. FSK
- D. QPSK

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935035
Status : Answered
Chosen Option : A

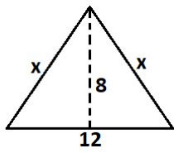
Q.61 An 8-bit DAC has a full-scale output of 15 V. The output voltage when the input is "10111010" is

- A. 10.89 mV
- B. 12 mV
- C. 12 V
- D. 10.89 V

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935078
Status : Answered
Chosen Option : D

Q.62 Find the value of x in the isosceles triangle shown below



- A. $x = 10$
- B. $x = 48$
- C. $x = \sqrt{80}$
- D. $x = \sqrt{96}$

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935092
Status : Not Answered
Chosen Option : --

Q.63 Twisted pair signal lines are used to reduce the effect of

- A. Electric field coupling
- B. Magnetic field coupling
- C. Transient voltages
- D. Formation of ground loops

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935083
Status : Answered
Chosen Option : D

Q.64 A signal of maximum frequency of 10 KHz is sampled at Nyquist rate. The time interval between two successive samples is

- A. $50\mu\text{s}$
- B. $100\mu\text{s}$
- C. $500\mu\text{s}$
- D. $1000\mu\text{s}$

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935098
Status : Answered
Chosen Option : A

Q.65 A process controller (PID) essentially is a

- A. Amplifier
- B. Clipper
- C. Sensor
- D. Comparator

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935040
Status : Answered
Chosen Option : D

Q.66 For a second order system, if both the roots of the characteristic equation are real, then the value of the damping ratio will be

- A. Less than unity
- B. Equal to unity
- C. Equal to zero
- D. Greater than unity

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935085
Status : Answered
Chosen Option : B

Q.67 A differential amplifier has a differential gain of 20,000 and CMRR is 80 dB. The common mode gain is:

- A. 2
- B. 1
- C. 1/2
- D. 0

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935066
Status : Answered
Chosen Option : A

Q.68 The large distances like distance of a planet from the earth is measured by

- A. Meter scale
- B. Parallax method
- C. Laser method
- D. Cannot be measured

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834935096**
Status : **Answered**
Chosen Option : **C**

Q.69 ----- flow meter works on the principle of dividing up the flowing fluid in to known volume pockets

- A. Positive displacement
- B. Orifice
- C. Turbine
- D. Mass

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834935026**
Status : **Answered**
Chosen Option : **A**

Q.70 Assertion (A): A 64-bit MUX can be built by using eight 8 input multiplexers

Reason (R): Any six variable function can always be implemented by a multiplexer with six address lines

Which of the following is correct?

- A. Both A and R are true and R is correct explanation of A
- B. Both A and R are true but R is not correct explanation of A
- C. A is true but R is false
- D. A is false but R is true

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834935076**
Status : **Answered**
Chosen Option : **A**

Q.71 A 5 V voltage source has 50Ω internal resistance. It transfers maximum power of

- A. 125mW to 100Ω load
- B. 25mW to 50Ω load
- C. 125mW to 50Ω load
- D. 25mW to 100Ω load

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834935086**
Status : **Answered**
Chosen Option : **C**

Q.72 Transportation lag is also known as

- A. Phase margin
- B. Dead time
- C. Gain margin
- D. None of the above

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834935051**
Status : **Answered**
Chosen Option : **B**

Q.73 Points P, Q, R, S in the order divide a line segment AB into 5 equal parts. A is at (1,2) and B is at (6,7). P is the closest to A. Find the coordinate of Q.

- A. 2,3
- B. 3,4
- C. 4,5
- D. 5,6

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834935093**
Status : **Not Answered**
Chosen Option : --

Q.74 Seismic transducer is used for the measurement of

- A. Linear velocity
- B. Angular velocity
- C. Acceleration
- D. Pressure

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935028
Status : Answered
Chosen Option : A

Q.75 Poisson's ratio is _____ (ϵ_a -Axial Strain, ϵ_t – Transverse strain)

- A. $-(\epsilon_t / \epsilon_a)$
- B. ϵ_t / ϵ_a
- C. $-(\epsilon_a / \epsilon_t)$
- D. ϵ_a / ϵ_t

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935047
Status : Not Answered
Chosen Option : --

Q.76 The maximum error of 0-25 °C range temperature sensor is 0.2° C. What is the accuracy of the sensor in percent span?

- A. 1%
- B. > 1%
- C. 0.8%
- D. 0.5%

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935022
Status : Answered
Chosen Option : C

Q.77 While using a BJT as an amplifier, the collector and emitter terminals got interchanged mistakenly. Assuming that the amplifier is a common emitter amplifier and the biasing is suitably adjusted, the interchange of terminals will result in to which one of the following?

- A. Zero gain
- B. Infinite gain
- C. Reduces gain
- D. No change in gain at all

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935067
Status : Answered
Chosen Option : C

Q.78 The process of combining uncertainties is called as

- A. Root mean square
- B. Sum square
- C. Root sum square
- D. Mean square

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935056
Status : Answered
Chosen Option : D

Q.79 The units of absolute viscosity is

- A. Pascal - Second
- B. Kg/ M³
- C. Pascal - Kg
- D. gm/cc

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834935059
Status : Not Answered
Chosen Option : --

Q.80 A watchdog timer is a device or programmed routine used for what purpose in a control system?

- A. To signal the start of a new program cycle
- B. To provide time delay for critical function
- C. To monitor the operation of the microprocessor
- D. To control timer functions.

Ans A. A
 B. B
 C. C
 D. D

Question ID : **5834935045**
Status : **Answered**
Chosen Option : **B**

