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सतीश धवन अंतरिक्ष केंद्र शार, श्रीहरिकोटा

SATISH DHAWAN SPACE CENTRE SHAR
Sriharikota

भारतीय अंतरिक्ष अनुसंधान संगठन
Indian Space Research Organisation



Section : **Electronics and Instrumentation Engineering E and IE**

Q.1 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 ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834935045

Q.2 The value of temperature at which both °C and °F are same

- A. -20°
- B. 20°
- C. -40°
- D. 40°

Ans ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834935053

Q.3 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 ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834935029

Q.4 The process of combining uncertainties is called as

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834935056

Q.5 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935049

Q.6 The Capacity of the rotameter can be changed by changing the

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834935023

Q.7 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935082

Q.8 The impurity commonly used for realizing the base region of a silicon NPN transistor is

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

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834935062

Q.9 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834935063

Q.10 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834935083

Q.11 The units of absolute viscosity is

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

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834935059

Q.12

P, Q, R, S बिन्दु एक क्रम में एक रेखा खंड AB को 5 समान भागों में बांटता है। A (1,2) पर है तथा B (6,7) पर है। P निकटतम है A के। Q के निर्देशांक ज्ञात करें।

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

Ans  1. A 2. B 3. C 4. D

Question ID : 5834935093

Q.13

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

Question ID : 5834935022

Q.14

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

Question ID : 5834935080

Q.15 ON-OFF keying is used in which type of modulation?

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834935035

Q.16 The internationally accepted reference standard is called _____

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834935094

Q.17 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935079

Q.18 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935069

Q.19 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834935057

Q.20 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834935078

Q.21 A process controller (PID) essentially is a

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

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834935040

Q.22 Thermocouples used in nuclear reactor is

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

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834935101

Q.23 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935055

Q.24 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935089

Q.25 Transportation lag is also known as

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834935051

Q.26 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935034

Q.27 ----- 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935026

Q.28 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935067

Q.29 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935072

Q.30 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935047

Q.31 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935070

Q.32 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 100 Ω . The change in resistance and elongation in the bar measured are 0.35 Ω and 0.2 mm respectively. The gauge factor of the strain gauge is

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834935032

Q.33 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935027

Q.34 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834935075

Q.35 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834935060

Q.36 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 theses

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834935061

Q.37

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

Question ID : 5834935084

Q.38

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

Question ID : 5834935077

Q.39

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

Question ID : 5834935044

Q.40 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 ✓ 1. A

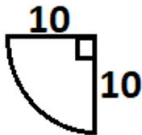
✗ 2. B

✗ 3. C

✗ 4. D

Question ID : 5834935041

Q.41 Find the area of the shape



- A. 100π
- B. 25π
- C. 50π
- D. 75π

Ans ✗ 1. A

✓ 2. B

✗ 3. C

✗ 4. D

Question ID : 5834935091

Q.42 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 ✓ 1. A

✗ 2. B

✗ 3. C

✗ 4. D

Question ID : 5834935081

Q.43 Which flow meter works on faradays law

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

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834935025

Q.44 The delay in response of a measuring system is

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

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834935054

Q.45 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834935066

Q.46 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  1. A
 2. B
 3. C
 4. D

Question ID : 5834935096

Q.47 What is the Boolean expression $A \oplus B$ equivalent to?

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834935074

Q.48 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935031

Q.49 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935058

Q.50 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935086

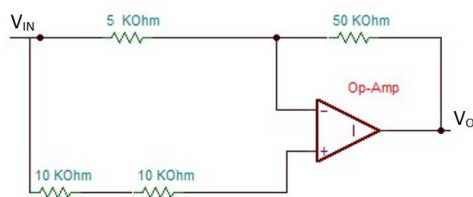
Q.51 Mcleod gauge working principle is

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

Ans ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834935100

Q.52 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 ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834935068

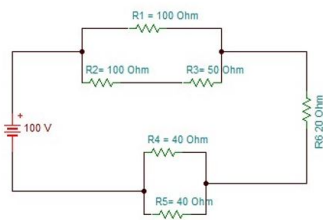
Q.53 PLC timer whose timing value is not reset by loss of power is

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

Ans ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834935042

Q.54 For the circuit shown, current through resistor R6 is



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

Ans ✓ 1. A

✗ 2. B

✗ 3. C

✗ 4. D

Question ID : 5834935087

Q.55 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 ✗ 1. A

✗ 2. B

✗ 3. C

✓ 4. D

Question ID : 5834935076

Q.56 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 ✗ 1. A

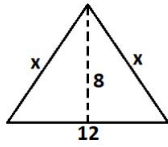
✓ 2. B

✗ 3. C

✗ 4. D

Question ID : 5834935064

Q.57 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 ✓ 1. A

✗ 2. B

✗ 3. C

✗ 4. D

Question ID : 5834935092

Q.58 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 ✗ 1. A

✗ 2. B

✓ 3. C

✗ 4. D

Question ID : 5834935073

Q.59 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 ✗ 1. A

✓ 2. B

✗ 3. C

✗ 4. D

Question ID : 5834935095

Q.60 एक परीक्षा में उपस्थित होने वाले विद्यार्थियों के सेट को सर्वभौमिक सेट "U" माना जाए। परीक्षा में अनुत्तीर्ण हुए विद्यार्थियों का सेट "A" माना जाए। A ज्ञात किजीए।

- A. परीक्षा में अनुपस्थित विद्यार्थियों का सेट
- B. परीक्षा में उत्तीर्ण विद्यार्थियों का सेट
- C. परीक्षा में अनुत्तीर्ण विद्यार्थियों का सेट
- D. परीक्षा में बुरी तरह से अनुत्तीर्ण विद्यार्थियों का सेट

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834935090

Q.61 An object with temperature co-efficient of resistance has a value of 300, its initial resistance is $25\ \Omega$ at 50°C . For an increase in 50° to 60° , what will be the final resistance value?

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834935036

Q.62 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935098

Q.63 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935030

Q.64 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935085

Q.65 Twisted pair conductors inherently reduces/ cancels;

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834935037

Q.66 $\epsilon_0 =$

- 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  1. A

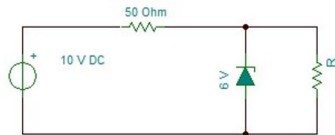
 2. B

 3. C

 4. D

Question ID : 5834935050

- Q.67** 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 ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834935065

- Q.68** What is the standard form of CRC?

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

Ans ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834935046

- Q.69** T-type thermocouple is combination of

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

Ans ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834935099

Q.70 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935038

Q.71 A Darlington pair is mainly used for

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834935071

Q.72 Programmable logic controller works on which mechanism?

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834935043

Q.73 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935052

Q.74 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935097

Q.75 Instrument used for very low pressure is

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834935024

Q.76 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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935048

Q.77 Seismic transducer is used for the measurement of

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834935028

Q.78 LM35 is a

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834935033

Q.79



P&ID Symbol indicates

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

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834935039

Q.80

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  1. A

 2. B

 3. C

 4. D

Question ID : 5834935088