Andhra Pradesh State Council of Higher Education

Notations :

1.Options shown in green color and with ✔ icon are correct.

2.Options shown in red color and with ✖ icon are incorrect.

Question Paper Name :	Electronics and Instrumentation Engineering 23rd Apr 2026 Shift 2
Subject Name :	Electronics and Instrumentation Engineering
Creation Date :	2026-04-23 18:00:14
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Electronics and Instrumentation Engineering

Group Number :	1
Group Id :	77951867
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
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Break time :	0
Group Marks :	200

Mathematics

Section Id :	779518261
Section Number :	1
Section type :	Online

Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	50
Section Negative Marks :	0
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	779518277
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 77951813209 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $3A+4B^T=\begin{bmatrix}7 & -10 & 17\\ 0 & 6 & 31\end{bmatrix}$ and $2B-3A^T=\begin{bmatrix}-1 & 18\\ 4 & -6\\ -5 & -7\end{bmatrix}$ then $B=$ _____

Options :

1. ✖ $\begin{bmatrix}1 & 3\\ -1 & 0\\ -2 & -4\end{bmatrix}$

2. ✖ $\begin{bmatrix}1 & 3\\ 1 & 0\\ 2 & 4\end{bmatrix}$

3. ✔ $\begin{bmatrix}1 & 3\\ -1 & 0\\ 2 & 4\end{bmatrix}$

4. ✖ $\begin{bmatrix}-1 & -3\\ 1 & 0\\ 2 & 4\end{bmatrix}$

Question Number : 2 Question Id : 77951813210 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If A and B are 4×4 matrices such that $A^2+B=A^2B$ then which of the following is correct?

Options :

1. ✖ $AB = I$

2. ✖ $A^2B = I$

3. ✔ $A^2B = BA^2$

4. ✖ $A^2 = I$ or $B = I$

Question Number : 3 Question Id : 77951813211 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If A is a matrix of order 3×3 and $\left|adj\left(adj\left(adjA\right)\right)\right| = 12^4$, then the value of $\left|A^{-1}adjA\right| =$ ____

Options :

1. ✖ 1

2. ✖ 12

3. ✔ $2\sqrt{3}$

4. ✖ $\sqrt{6}$

Question Number : 4 Question Id : 77951813212 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If A is a 4×4 matrix and $\left|2A\right| = 64$, $B = adjA$ then $\left|AdjB\right| =$ _____

Options :

1. ✔ 2^{18}

2. ✖ 2^{36}

3. ✖ 2^6

4. ✖ 2^9

Question Number : 5 Question Id : 77951813213 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

For what value of λ, the system of equations $x+2y+\lambda z=0,\ x+2y+z=6,\ x+2y+3z=10$, has no solution.____

Options :

1. ✖ 2

2. ✔ 3

3. ✖ 4

4. ✖ 5

Question Number : 6 Question Id : 77951813214 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $\frac{42-19x}{(x^2+1)(x-4)}=\frac{Ax+B}{x^2+1}+\frac{C}{x-4}$ then $B=$_____

Options :

1. ✔ -11

2. ✖ 11

3. ✖ -2

4. ✖ 2

Question Number : 7 Question Id : 77951813215 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $\frac{(x+1)^2}{x^3+x}=\frac{A}{x}+\frac{Bx+C}{x^2+1}$, then $\sin^{-1}\left(\frac{A}{C}\right)=$

Options :

1. ✔ $\frac{\pi}{6}$

2. ✖ $\frac{\pi}{4}$

3. ✖ $\frac{\pi}{3}$

4. ✖ $\frac{\pi}{2}$

Question Number : 8 Question Id : 77951813216 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $\text{Sin}\theta+\text{Cos}\theta=\frac{1}{5}$ and $0\le\theta<\pi$ then $\tan\theta$ is _____

Options :

1. ✔ $\frac{-4}{3}$

2. ✖ $\frac{3}{4}$

3. ✖ $\frac{-3}{4}$

4. ✖ $\frac{4}{3}$

Question Number : 9 Question Id : 77951813217 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $f(x)=Sin^6 x+Cos^6 x$ then the range of $f(x)$ is _____

Options :

1. ✖ $\left(\frac{1}{4},\frac{3}{4}\right)$

2. ✖ $\left[\frac{1}{4},\frac{3}{4}\right]$

3. ✔ $\left[\frac{1}{4},1\right]$

4. ✖ $\left[\frac{3}{4},1\right]$

Question Number : 10 Question Id : 77951813218 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$Cos20^\circ+Cos80^\circ-\sqrt{3}Cos50^\circ=$ ____

Options :

1. ✖ -1

2. ✔ 0

3. ✖ 1

4. ✖ $\sqrt{3}$

Question Number : 11 Question Id : 77951813219 Question Type : MCQ

Correct Marks : 1 Wrong Marks : 0

If $A = Sin45^\circ + Cos45^\circ$ and $B = Sin44^\circ + Cos44^\circ$ then which of the following is TRUE

Options :

1. ✔ $A > B$

2. ✖ $A < B$

3. ✖ $A = B$

4. ✖ $AB = 1$

Question Number : 12 Question Id : 77951813220 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If A, B, C are angles of a triangle such that $Cot\frac{A}{2} = 3Tan\frac{C}{2}$ then $Sin A$, $Sin B$, $Sin C$ are in___

Options :

1. ✔ Arithmetic Progression

2. ✖ Geometric Progression

3. ✖ Harmonic Progression

4. ✖ Arithmetic Geometric Progression

Question Number : 13 Question Id : 77951813221 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In ΔABC, if $Sin A = Sin^2 B$ and $2 Cos^2 A = 3 Cos^2 B$ then the triangle ABC is _____

Options :

1. ✖ equilateral

2. ✖ isosceles

3. ✔ obtuse angled

4. ✖ right angled

Question Number : 14 Question Id : 77951813222 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$\text{Sec}\,855^\circ =$ _____

Options :

1. ✖ 1

2. ✖ $\sqrt{2}$

3. ✔ $-\sqrt{2}$

4. ✖ -1

Question Number : 15 Question Id : 77951813223 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The number of solutions of $\text{Sin}\,x = \frac{x}{10}$ is _____

Options :

1. ✖ 10

2. ✖ 3

3. ✖ 5

4. ✔ 7

Question Number : 16 Question Id : 77951813224 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following is not the solution of the equation $Sin5x = 16Sin^5 x (n \in Z)$?

Options :

1. ✖ $n\pi + \frac{\pi}{6}$

2. ✖ $n\pi - \frac{\pi}{6}$

3. ✖ $n\pi$

4. ✔ $n\pi + \frac{\pi}{3}$

Question Number : 17 Question Id : 77951813225 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $\frac{\pi}{2} \le \theta \le \frac{3\pi}{4}$ then $\cos^{-1}\left(\frac{5}{13}\sin\theta + \frac{12}{13}\cos\theta\right) =$ ____

Options :

1. ✖ $\theta - Tan^{-1}\left(\frac{4}{3}\right)$

2. ✖ $\theta + Tan^{-1}\left(\frac{5}{12}\right)$

3. ✖ $\theta + Tan^{-1}\left(\frac{4}{5}\right)$

4. ✔ $\theta - Tan^{-1}\left(\frac{5}{12}\right)$

Question Number : 18 Question Id : 77951813226 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If z is a complex number such that $|z|+z=3+i$, where $i=\sqrt{-1}$, then $|z|=$ ___

Options :

1. ✔ $\frac{5}{3}$

2. ✖ $\frac{5}{4}$

3. ✖ $\frac{\sqrt{34}}{3}$

4. ✖ $\frac{\sqrt{41}}{4}$

Question Number : 19 Question Id : 77951813227 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In the complex plane, if the points A and B represent $(1+i)$ and $(-1+i)$ then the angle between OA and OB is

Options :

1. ✖ $\frac{3\pi}{4}$

2. ✖ π

3. ✖ $\frac{\pi}{4}$

4. ✔ $\frac{\pi}{2}$

Question Number : 20 Question Id : 77951813228 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The largest distance from $(-3,2)$ to the circle $x^2+y^2-2x+2y+1=0$ _____

Options :

1. ✖ 8

2. ✖ 4

3. ✖ 18

4. ✔ 6

Question Number : 21 Question Id : 77951813229 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If the line $3x-2y+6=0$ meets x-axis and y-axis respectively at A and B, then the equation of the circle with radius AB and centre at A is _____

Options :

1. ✖ $x^2+y^2+4x+9=0$

2. ✔ $x^2+y^2+4x-9=0$

3. ✖ $x^2+y^2+4x+4=0$

4. ✖ $x^2+y^2+4x-4=0$

Question Number : 22 Question Id : 77951813230 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The equation $16x^2+y^2+8xy-74x-78y+212=0$ represents _____

Options :

1. ✖ a circle

2. ✔ a parabola

3. ✖ an ellipse

4. ✖ hyperbola

Question Number : 23 Question Id : 77951813231 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The equation of major axis of the ellipse $\frac{(x-1)^2}{9}+\frac{(y-6)^2}{4}=1$ is

Options :

1. ✖ $y-2=0$

2. ✔ $y=6$

3. ✖ $x-1=0$

4. ✖ $x=9$

Question Number : 24 Question Id : 77951813232 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The equation $\frac{x^2}{7-k}+\frac{y^2}{5-k}=1$ represents a hyperbola if _____

Options :

1. ✔ $5<k<7$

2. ✖ $k>5$

3. ✖ $k < 5 \text{ or } k > 7$

4. ✖ $k \neq 5, k \neq 7$

Question Number : 25 Question Id : 77951813233 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The vertex of the parabola $y = ax^2 + bx + c$ is _____

Options :

1. ✖ $\left(\frac{b}{2a}, \frac{b^2 - 4ac}{4a}\right)$

2. ✖ $\left(\frac{b}{2a}, \frac{4ac - b^2}{4a}\right)$

3. ✖ $\left(\frac{-b}{2a}, \frac{b^2 - 4ac}{4a}\right)$

4. ✔ $\left(\frac{-b}{2a}, \frac{4ac - b^2}{4a}\right)$

Question Number : 26 Question Id : 77951813234 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$\underset{x \to 0}{Lt}\left(\frac{|x|}{x} + x + 2\right) =$ _____

Options :

1. ✖ 0

2. ✖ 1

3. ✖ 2

4. ✔ does not exist

Question Number : 27 Question Id : 77951813235 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$$\lim_{x\to 0} \frac{e^{x^2}-\cos x}{\sin^2 x} = \_\_\_\_\_$$

Options :

1. ✖ 3

2. ✔ $\frac{3}{2}$

3. ✖ $\frac{5}{4}$

4. ✖ 2

Question Number : 28 Question Id : 77951813236 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following functions have finite number of points of discontinuity?

Options :

1. ✖ $\text{Tan}\, x$

2. ✖ $x[x]$

3. ✔ $\frac{|x|}{x}$

4. ✖ $Cotx$

Question Number : 29 Question Id : 77951813237 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $\left(\frac{x}{a}\right)^n + \left(\frac{y}{b}\right)^n = 2$ then $\frac{dy}{dx}$ at (a,b) is _____

Options :

1. ✖ $\frac{a}{b}$

2. ✖ $-\frac{a}{b}$

3. ✖ $\frac{b}{a}$

4. ✔ $-\frac{b}{a}$

Question Number : 30 Question Id : 77951813238 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The set of all points of differentiability of the function $f(x) = e^{-|x|}$ is

Options :

1. ✖ $(0,\infty)$

2. ✖ $[0,\infty)$

3. ✖ $(-\infty,\infty)$

4. ✔ $(-\infty,\infty)-\{0\}$

Question Number : 31 Question Id : 77951813239 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If there is an error of $\frac{3}{10}\%$ in the volume of a sphere then the percentage error in its radius is

Options :

1. ✔ $\frac{1}{10}$

2. ✖ $\frac{2}{10}$

3. ✖ $\frac{3}{10}$

4. ✖ 3

Question Number : 32 Question Id : 77951813240 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The value of p such that the line joining $(0,3),(5,-2)$ is a tangent to the curve $y=\frac{p}{x+1}$ is

Options :

1. ✖ 23

2. ✔ 4

3. ✖ 3

4. ✖ 1

Question Number : 33 Question Id : 77951813241 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The interval in which $f(x)=2x^2-\log x$ increases is _____

Options :

1. ✖ $\left(-\frac{1}{2},0\right)$

2. ✖ $\left(0,\frac{1}{2}\right)$

3. ✖ $\left(-\frac{1}{2},\frac{1}{2}\right)$

4. ✔ $\left(\frac{1}{2},\infty\right)$

Question Number : 34 Question Id : 77951813242 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The function $y=xe^x$ has _____

Options :

1. ✔ Minimum value at $x=-1$

2. ✖ Minimum value at $x=0$

3. ✖ Maximum value at $x=-1$

4. ✖ Maximum value at $x=0$

Question Number : 35 Question Id : 77951813243 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A particle is moving in a straight line such that its distance at any time t is given by

$s=\frac{t^4}{4}-2t^3+4t^2+7$ then its acceleration is minimum at t = _____

Options :

1. ✖ 1

2. ✔ 2

3. ✖ $\frac{1}{2}$

4. ✖ $\frac{3}{2}$

Question Number : 36 Question Id : 77951813244 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $\int \frac{1}{(x+100)\sqrt{x+99}} dx = f(x) + c$ then $f(x) =$ _____

Options :

1. ✖ $2\sqrt{(x+100)}$

2. ✖ $3\sqrt{(x+100)}$

3. ✔ $2\,\mathrm{Tan}^{-1}\sqrt{x+99}$

4. ✖ $2\,\mathrm{Tan}^{-1}\sqrt{x+100}$

Question Number : 37 Question Id : 77951813245 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$\int \frac{1+\cos 4x}{\cot x - \tan x} dx =$ _____

Options :

1. ✖ $\frac{1}{4}\cos 4x + c$

2. ✖ $\frac{1}{8}\cos 4x + c$

3. ✖ $-\frac{1}{4}\cos 4x + c$

4. ✔ $-\frac{1}{8}\cos 4x + c$

Question Number : 38 Question Id : 77951813246 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $I_n = \int \frac{t^n}{1+t^2} dt$ then $I_6 + I_4 =$ _____

Options :

1. ✖ $\frac{t^3}{3}$

2. ✖ $\frac{t^4}{4}$

3. ✔ $\frac{t^5}{5}$

4. ✖ $\frac{t^7}{7}$

Question Number : 39 Question Id : 77951813247 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$\int (x+1)^2 e^x dx =$ _____

Options :

1. ✖ $xe^x + c$

2. ✖ x^2e^x+c

3. ✖ $(x+1)e^x+c$

4. ✔ $\left(x^2+1\right)e^x+c$

Question Number : 40 Question Id : 77951813248 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $\int \frac{2x^2+a^2}{x^2\left(x^2+a^2\right)}dx=\frac{k}{x}+\frac{1}{a}\tan^{-1}\frac{x}{a}+c$ then $k=$ _____

Options :

1. ✖ 0

2. ✔ -1

3. ✖ 1

4. ✖ $\frac{1}{a}$

Question Number : 41 Question Id : 77951813249 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $k\int_0^1 xf(3x)dx=\int_0^3 tf(t)dt$ then $k=$ _____

Options :

1. ✔ 9

2. ✖ 3

3. ✖ $\frac{1}{9}$

4. ✖ $\frac{1}{3}$

Question Number : 42 Question Id : 77951813250 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$\int_a^b \left(|x-a|+|x-b|\right)dx =$ _____, $(0<a<b)$

Options :

1. ✔ $(b-a)^2$

2. ✖ $(b-a)$

3. ✖ $(b+a)$

4. ✖ $(b+a)^2$

Question Number : 43 Question Id : 77951813251 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$\int_0^2 \left[x^2\right]dx =$ _____

Options :

1. ✖ 0

2. ✔ $5-\sqrt{2}-\sqrt{3}$

3. ✖

$5+\sqrt{2}+\sqrt{3}$

4. ✖ $\sqrt{2}+\sqrt{3}+\sqrt{5}$

Question Number : 44 Question Id : 77951813252 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If the order and degree of a differential equation $\left(\frac{d^4y}{dx^4}+\frac{d^2y}{dx^2}\right)^{\frac{5}{2}}=10\frac{d^2y}{dx^2}$ are p and q respectively, then $p+q=$

Options :

1. ✔ 9

2. ✖ 6

3. ✖ 7

4. ✖ 10

Question Number : 45 Question Id : 77951813253 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The differential equation of the family of concentric circles with Centre at the origin is

Options :

1. ✖ $x=y\frac{dy}{dx}$

2. ✖ $\frac{dy}{dx}=\frac{y}{x}$

3. ✔ $xdx+ydx=0$

4. ✖ $xdy+ydx=0$

Question Number : 46 Question Id : 77951813254 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$\frac{dy}{dx} = xy + x + y + 1$ has the solution

Options :

1. ✖ $\log(y+1) = x^2 + x + c$

2. ✖ $\log(y+1) = x + c$

3. ✖ $\log(y+1) = -x + c$

4. ✔ $\log(y+1) = \frac{x^2}{2} + x + c$

Question Number : 47 Question Id : 77951813255 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The general solution of $\frac{ydx - xdy}{y^2} = 0$ represents a family of

Options :

1. ✔ Straight lines passing through the origin

2. ✖ Circles

3. ✖ parabolas

4. ✖ Hyperbolas

Question Number : 48 Question Id : 77951813256 Question Type : MCQ

Correct Marks : 1 Wrong Marks : 0

Which of the following is an integrating factor for the differential equation

$$x\cos x\frac{dy}{dx}+(x\sin x+\cos x)y=1\ ?$$

Options :

1. ✖ $x\cos x$

2. ✖ $x\sin x$

3. ✔ $x\sec x$

4. ✖ $x\cos ecx$

Question Number : 49 Question Id : 77951813257 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The equation of the curve passing through the origin and satisfying the differential equation

$$\frac{dy}{dx}=(x-y)^2 \text{ is } \_\_\_\_$$

Options :

1. ✔ $e^{2x}(1-x+y)=1+x-y$

2. ✖ $e^{2x}(1+x-y)=1-x+y$

3. ✖ $e^{2x}(1+x+y)=1-x+y$

4. ✖ $e^{2x}(1-x+y)=-(1+x+y)$

Question Number : 50 Question Id : 77951813258 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If the solution $y(x)$ of the given differential equation $\left(e^{y}+1\right)\cos x dx+e^{y}\sin x dy=0$ passes through the point $\left(\frac{\pi}{2},0\right)$, then the value of $e^{y\left(\frac{\pi}{6}\right)}$ is

Options :

1. ✖ 2

2. ✔ 3

3. ✖ e^{2}

4. ✖ e^{-3}

Physics

Section Id :	779518262
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	25
Number of Questions to be attempted :	25
Section Marks :	25
Section Negative Marks :	0
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	779518278
Question Shuffling Allowed :	Yes

Question Number : 51 Question Id : 77951813259 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If F is the force, S is the displacement and V is the velocity of the particle, the dimensions of the ratio FS/V^2 will be

Options :

1. ✖

M^0LT^0

2. ✔ $M^1L^0T^0$

3. ✖ M^0L^0T

4. ✖ $M^0L^0T^0$

Question Number : 52 Question Id : 77951813260 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Among the following, unit less quantity is

Options :

1. ✖ Velocity gradient

2. ✖ Pressure gradient

3. ✔ Displacement gradient

4. ✖ Force gradient

Question Number : 53 Question Id : 77951813261 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If the component of one vector in the direction of another vector is zero, then those two vectors are

Options :

1. ✖ parallel to each other

2. ✔ perpendicular to each other

3. ✖ opposite to each other

4. ✖ coplanar vectors

Question Number : 54 Question Id : 77951813262 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If the resultant of two vectors is equal to either of vectors, the angle between them is

Options :

1. ✖ 30^0

2. ✖ 60^0

3. ✖ 90^0

4. ✔ 120^0

Question Number : 55 Question Id : 77951813263 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The angle made by the vector $(2\hat{\imath}+2\hat{\jmath})$ with X-axis is

Options :

1. ✔ 45^0

2. ✖ 60^0

3. ✖ 90^0

4. ✖ 120^0

Question Number : 56 Question Id : 77951813264 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The length of a vector $(3\hat{\imath}+\hat{\jmath}+2\hat{k})$ in XY plane is

Options :

1. ✖ $\sqrt{14}$

2. ✖ 2

3. ✔ $\sqrt{10}$

4. ✖ $\sqrt{5}$

Question Number : 57 Question Id : 77951813265 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A stone projected up with a velocity 'u' reaches two points A and B at a distance 'h' with velocities u/2 and u/3. The maximum height reached by the stone is

Options :

1. ✖ $\frac{9h}{5}$

2. ✖ $\frac{27h}{4}$

3. ✖ $\frac{36h}{27}$

4. ✔

$\frac{36h}{5}$

Question Number : 58 Question Id : 77951813266 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A ball is thrown at a speed of 20 m s^{-1} at an angle of 30^0 with the horizontal. The maximum height reached by the ball is (g = 10 ms^{-2})

Options :

1. ✖ 2 m

2. ✖ 3 m

3. ✖ 4 m

4. ✔ 5 m

Question Number : 59 Question Id : 77951813267 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A body of mass 2 kg is moving with a constant acceleration of $(2\hat{i}+3\hat{j}-\hat{k})$ ms^{-2}. If the displacement made by the body is $(3\hat{i}-\hat{j}+2\hat{k})$ m then the work done is

Options :

1. ✔ 2 J

2. ✖ 10 J

3. ✖ 12 J

4. ✖ 22 J

Question Number : 60 Question Id : 77951813268 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The average power generated by a 90 kg mountain climber who climbs a summit of height 600 m in 90 minutes is ($g = 10\ ms^{-2}$)

Options :

1. 100 W ✔

2. 25 W ✖

3. 200 W ✖

4. 50 W ✖

Question Number : 61 Question Id : 77951813269 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A body of mass 16 kg explodes into two pieces of masses 4 kg and 12 kg. The velocity of the 12 kg mass is 4 ms^{-1}. The kinetic energy of the second piece is

Options :

1. 96 J ✖

2. 144 J ✖

3. 192 J ✖

4. 288 J ✔

Question Number : 62 Question Id : 77951813270 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Two bodies of masses of 1 g and 4 g are moving with equal kinetic energies. The ratio of the magnitudes of their linear momenta is

Options :

1. ✖ $4 : 1$

2. ✖ $\sqrt{2} : 1$

3. ✔ $1 : 2$

4. ✖ $1 : 16$

Question Number : 63 Question Id : 77951813271 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A sound absorber attenuates the sound level by 20 dB. The intensity decreases by a factor of

Options :

1. ✖ 10

2. ✔ 100

3. ✖ 1000

4. ✖ 10000

Question Number : 64 Question Id : 77951813272 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A source of sound is moving towards a wall with a speed of 20 ms^{-1}. The frequency of the sound produced by the source is 400 Hz. If the speed of the sound is 340 ms^{-1}, the beat frequency heard by a person standing near the wall is

Options :

1. ✔ 0 Hz

2. ✖ 2Hz

3. ✖ 5 Hz

4. ✖ 10 Hz

Question Number : 65 Question Id : 77951813273 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A person standing between two parallel hills fires a gun. He hears the first echo after 1.5 sec and second echo after 2.5 sec. If the speed of a sound is 332 ms^{-1}, the distance between the hills is

Options :

1. ✖ 654 m

2. ✔ 664 m

3. ✖ 674 m

4. ✖ 684 m

Question Number : 66 Question Id : 77951813274 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The velocity of sound in air is 330 ms^{-1}. To increase the apparent frequency of the sound by 50 %, the source should move towards the stationary observer with a velocity equal to

Options :

1. ✖ 330 ms^{-1}

2. ✖ 220 ms^{-1}

3. ✖ 165 ms^{-1}

4. ✔ 110 ms^{-1}

Question Number : 67 Question Id : 77951813275 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If the total absorption of a hall is doubled, the reverberation time will

Options :

1. ✖ Double

2. ✔ Become half

3. ✖ Remain same

4. ✖ Become four times

Question Number : 68 Question Id : 77951813276 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The volume V of an enclosure contains a mixture of gases like 16 g of oxygen, 28 g of nitrogen and 44 g of carbon dioxide at absolute temperature T. The pressure of the mixture of gases is (R is universal gas constant)

Options :

1. ✖ 3RT/V

2. ✖ 4RT/V

3. ✔ 5RT/2V

4. ✖ 88RT/V

Question Number : 69 Question Id : 77951813277 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Certain quantity of heat is supplied to a monoatomic ideal gas which expands at constant pressure. The percentage of heat that goes into work done by the gas is

Options :

1. ✖ 20%

2. ✔ 40%

3. ✖ 60%

4. ✖ 80%

Question Number : 70 Question Id : 77951813278 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The wrong statement among the following is

Options :

1. ✖ During free expansion, temperature of ideal gas does not change

2. ✖ During free expansion, temperature of real gas decreases

3. ✔ During free expansion of real gas temperature does not change

4. ✖ Free expansion is conducted in adiabatic manner

Question Number : 71 Question Id : 77951813279 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A monoatomic ideal gas, initially at temperature T_1 is enclosed in a cylinder fitted with a frictionless piston. The gas is allowed to expand adiabatically to a temperature T_2 by releasing the piston suddenly. If L_1 and L_2 are the lengths of the gas column, before and after the expansion, then the value of T_1/ T_2 will be

Options :

1. ✖ $(L_1/ L_2)^{2/3}$

2. ✔ $(L_2/ L_1)^{2/3}$

3. ✖ L_2/ L_1

4. ✖ L_1/ L_2

Question Number : 72 Question Id : 77951813280 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A gas behaves more closely as an ideal gas at

Options :

1. ✖ Low pressure and low temperature

2. ✔ Low pressure and high temperature

3. ✖ High pressure and low temperature

4. ✖ High pressure and high temperature

Question Number : 73 Question Id : 77951813281 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If the maximum kinetic energy of emitted photo electrons from a metal is 0.9 eV and work function is 2.2 eV then the energy and wavelength of incident radiation are

Options :

1. ✔ 3.1 eV, 4000 A^0

2. ✖ 2.2 eV, 2000 A^0

3. ✖ 2.2 eV, 4000 A^0

4. ✖ 3.1 eV, 2000 A^0

Question Number : 74 Question Id : 77951813282 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The core of an optical fibre is surrounded by

Options :

1. ✔ Cladding

2. ✖ Plastic jacket

3. ✖ Air

4. ✖ Metal sheath

Question Number : 75 Question Id : 77951813283 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The favourable condition for superconducting state of a matter is

Options :

1. ✖ A weak electron-phonon interaction

2. ✔ A strong electron-phonon interaction

3. ✖ A strong phonon -phonon interaction

4. ✖ A weak phonon -phonon interaction

Chemistry

Section Id :	779518263
Section Number :	3
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	25
Number of Questions to be attempted :	25
Section Marks :	25

Section Negative Marks :	0
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	779518279
Question Shuffling Allowed :	Yes

Question Number : 76 Question Id : 77951813284 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In which of the following, the number of unpaired electrons is maximum?

Options :

1. ✖ P^{3-} (Z=15)

2. ✔ S (Z=16)

3. ✖ Cl (Z=17)

4. ✖ Al^{3+} (Z=13)

Question Number : 77 Question Id : 77951813285 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The n, l values possible for a sublevel with seven degenerate orbitals are respectively (where n, l represent the symbols of principal and Azimuthal quantum numbers respectively)

Options :

1. ✔ 4, 3

2. ✖ 3, 4

3. ✖ 5, 1

4. ✖ 6, 2

Question Number : 78 Question Id : 77951813286 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The number of electrons with magnetic quantum number, $m_l = 0$ in chloride ion is (Cl (Z=17))

Options :

1. ✖ 6

2. ✖ 8

3. ✔ 10

4. ✖ 18

Question Number : 79 Question Id : 77951813287 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Atomic numbers of four elements A, B, C and D are (Z-1), (Z+2), Z and (Z+1), respectively. If Z=9, the type of bonding between A and B is (where Z= Atomic number of element)

Options :

1. ✖ Dative bond

2. ✖ Polar Covalent bond

3. ✔ Electrovalent bond

4. ✖ Non polar Covalent bond

Question Number : 80 Question Id : 77951813288 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Identify the molecule in which central atom is not obeying the octet rule.

Options :

1. ✖ H_2O

2. ✖ PCl_3

3. ✔ BF_3

4. ✖ NH_3

Question Number : 81 Question Id : 77951813289 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The mass of Na_2CO_3 (in g) (M.wt=106) present in 1.0 L of 0.05 M solution is

Options :

1. ✖ 0.53

2. ✖ 53.0

3. ✖ 26.5

4. ✔ 5.30

Question Number : 82 Question Id : 77951813290 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A gaseous mixture contains 14 g of N_2, 8.0 g of O_2 and 8.0 g of H_2. Total number of molecules present in the mixture is (N_A= Avogadro number)
(At.wt; H=1, N=14, O=16)

Options :

1. ✖ 2.75 N_A

2. ✖

3.75 N_A

3. ✔ 4.75 N_A

4. ✖ 1.50 N_A

Question Number : 83 Question Id : 77951813291 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The ratio of equivalent weights of HNO_3 and H_2SO_4 is

Options :

1. ✖ 9:5

2. ✖ 6:5

3. ✖ 7:9

4. ✔ 9:7

Question Number : 84 Question Id : 77951813292 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following cannot act as a buffer?

Options :

1. ✖ $NH_4OH + NH_4Cl$

2. ✖ $CH_3COOH + CH_3COONa$

3. ✖ $H_2CO_3 + Na_2CO_3$

4. ✔ $HCl + NaCl$

Question Number : 85 Question Id : 77951813293 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

200 mL of 0.1 M NaOH is allowed to react completely with 100 mL of 0.1 M HCl and the solution is diluted to 1.0 L by adding water. The pH of the mixture is

Options :

1. ✖ 3

2. ✖ 11

3. ✖ 2

4. ✔ 12

Question Number : 86 Question Id : 77951813294 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following is an example of non-electrolyte?

Options :

1. ✖ CH_3COONa

2. ✖ NaCl

3. ✖ NaOH

4. ✔ C_2H_5OH

Question Number : 87 Question Id : 77951813295 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In a galvanic cell, electrons flow from

Options :

1. ✖ anode to cathode through the solution

2. ✖ cathode to anode through the solution

3. ✔ anode to cathode through the external circuit

4. ✖ cathode to anode through the external circuit

Question Number : 88 Question Id : 77951813296 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Saturated solution of KNO_3 is used to make salt bridge because

Options :

1. ✖ Velocity of K^+ is greater than NO_3^-

2. ✖ Velocity of NO_3^- is greater than K^+

3. ✔ Velocity of K^+ approximately equal to NO_3^-

4. ✖ KNO_3 is highly soluble in water

Question Number : 89 Question Id : 77951813297 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A 2 kg water sample contains 408 mg of $CaSO_4$ (M.wt =136). The hardness in terms of $CaCO_3$ equivalents (in ppm) is

Options :

1. ✖ 100

2. ✖ 136

3. ✔ 150

4. ✖ 204

Question Number : 90 Question Id : 77951813298 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of following is responsible for temporary hardness of water?

Options :

1. ✖ $NaHCO_3$

2. ✔ $Ca\ (HCO_3)_2$

3. ✖ $NaHSO_4$

4. ✖ $CaCl_2$

Question Number : 91 Question Id : 77951813299 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Demineralised water can be obtained by using

Options :

1. ✖ Clark's method

2. ✖ Permutit method

3. ✖ Calgon's method

4. ✔ Ion exchange resin method

Question Number : 92 Question Id : 77951813300 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following is considered as high corrosive resistant material?

Options :

1. ✖ Cast iron

2. ✔ Stainless steel

3. ✖ Zinc

4. ✖ Mild steel

Question Number : 93 Question Id : 77951813301 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The wrong statement about corrosion is

Options :

1. ✖ Corrosion involves oxidation

2. ✖ Hydrated ferric oxide is called rust

3. ✔ Lesser the potential difference between the two metals, greater will be the corrosion of anodic metal

4. ✖ Coating of zinc on iron is an example of anodic coating

Question Number : 94 Question Id : 77951813302 Question Type : MCQ

Correct Marks : 1 Wrong Marks : 0

An example for condensation polymer is

Options :

1. ✖ Neoprene rubber

2. ✖ Natural rubber

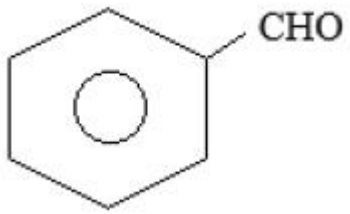
3. ✔ Urea - formaldehyde resin

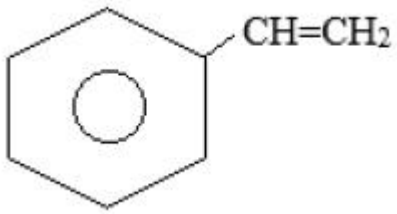
4. ✖ Polytetrafluoroethylene

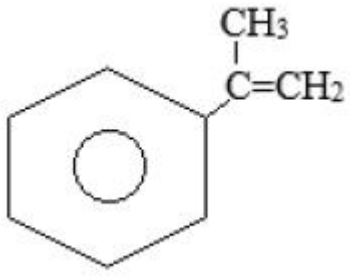
Question Number : 95 Question Id : 77951813303 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

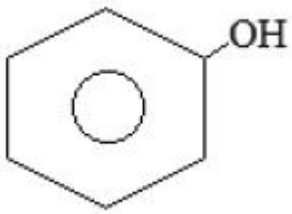
Buna-S is a polymer of monomers X and Y. If X is $CH_2 = CH - CH = CH_2$, then what is Y?

Options :

1. ✖ 

2. ✔ 

3. ✖ 

4. ✖ 

Question Number : 96 Question Id : 77951813304 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following is an elastomer?

Options :

1. ✔ Neoprene

2. ✖ Polyvinyl chloride

3. ✖ Bakelite

4. ✖ Teflon

Question Number : 97 Question Id : 77951813305 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The monomer of Teflon is

Options :

1. ✖ $F_2C = CF(Cl)$

2. ✖ $F_2C = CCl_2$

3. ✖ $F_2C = C\ (Br)Cl$

4. ✔

$F_2C = CF_2$

Question Number : 98 Question Id : 77951813306 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The major component of biogas is

Options :

1. ✔ CH_4

2. ✖ CO

3. ✖ N_2

4. ✖ NH_3

Question Number : 99 Question Id : 77951813307 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Ageing of skin, cataract and skin cancer are the result of

Options :

1. ✖ Acid rain

2. ✖ Green-house effect

3. ✔ Depletion of O_3 layer

4. ✖ CO Pollution

Question Number : 100 Question Id : 77951813308 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following is not a green-house effect gas?

Options :

1. ✖ N_2O

2. ✖ CH_4

3. ✖ CO_2

4. ✔ N_2

Electronics and Instrumentation Engineering

Section Id :	779518264
Section Number :	4
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	100
Number of Questions to be attempted :	100
Section Marks :	100
Section Negative Marks :	0
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	779518280
Question Shuffling Allowed :	Yes

Question Number : 101 Question Id : 77951813309 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which law states that the sum of all voltage drops and EMFs in a closed loop is zero?

Options :

1. ✖ Ohm's law

2. ✖ Kirchhoff's current law

3. ✔ Kirchhoff's voltage law

4. ✖ Faraday's law

Question Number : 102 Question Id : 77951813310 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A voltage source having source resistance R_S=10Ω is connected to a variable load resistance R_L. To achieve maximum power transfer, R_L should be

Options :

1. ✖ 0Ω

2. ✖ 5 Ω

3. ✔ 10 Ω

4. ✖ 20 Ω

Question Number : 103 Question Id : 77951813311 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If the current passing through a heater is doubled, the heat produced becomes

Options :

1. ✖ Doubled

2. ✖ Halved

3. ✔ Four times

4. ✖ One forth

Question Number : 104 Question Id : 77951813312 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A transformer works on the principle of

Options :

1. ✖ Self-induction

2. ✔ Mutual induction

3. ✖ Ohm's law

4. ✖ Dynamic induction

Question Number : 105 Question Id : 77951813313 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What happens if a DC shunt motor is connected across an AC supply?

Options :

1. ✖ Runs at high speed

2. ✖ Runs at a lower speed

3. ✔ Will not run and may burn

4. ✖ Runs normally

Question Number : 106 Question Id : 77951813314 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The frequency (f) of the voltage generated in an Alternator is given by (P=Poles, N=Speed in rpm)

Options :

1. ✖ f=PN/60

2. ✖ f=120/PN

3. ✖ f=PN/100

4. ✔ f=PN/120

Question Number : 107 Question Id : 77951813315 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A Photo transistor works on the principle of converting light energy into

Options :

1. ✖ Voltage

2. ✔ Current

3. ✖ Resistance

4. ✖ Inductance

Question Number : 108 Question Id : 77951813316 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What is the process of increasing the number of electrons in a Photo Multiplier Tube (PMT) called?

Options :

1. ✔ Secondary emission

2. ✖ Photo electric effect

3. ✖ Thermionic emission

4. ✖

Fluorescence

Question Number : 109 Question Id : 77951813317 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Why is a resistor typically used in series with the input LED of an Opto Coupler?

Options :

1. ✖ To increase the voltage

2. ✖ To increase the isolation voltage

3. ✔ To limit the LED current

4. ✖ To decrease the output voltage

Question Number : 110 Question Id : 77951813318 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Induction heating is primarily used for which of the following materials?

Options :

1. ✖ Insulating materials

2. ✖ Non – metallic materials

3. ✖ Transparent materials

4. ✔ Conducting materials

Question Number : 111 Question Id : 77951813319 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What is the main, fundamental limitation of a standard 7-segment display?

Options :

1. ✖ It cannot display decimals

2. ✖ It consumes too much power

3. ✔ It cannot show complex alphanumeric characters

4. ✖ It only works with AC signals

Question Number : 112 Question Id : 77951813320 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

For a unity negative feedback control system with an open-loop transfer function $G(s)=\frac{10}{s(s+2)}$. What is the closed loop transfer function?

Options :

1. ✔ $\frac{10}{s^2+2s+10}$

2. ✖ $\frac{10}{s^2+2s-10}$

3. ✖ $\frac{10}{s^2+10s+2}$

4. ✖ $\frac{1}{s^2+2s+10}$

Question Number : 113 Question Id : 77951813321 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Consider a simple Signal Flow Graph with input node 'R' and output node 'C'. One forward path with gain G_1=5. One feedback loop that touches the forward path with gain L_1=-2. Using Mason's gain formula, what is the transfer function C/R?

Options :

1. ✖ 5

2. ✔ 1.66

3. ✖ 0.625

4. ✖ 0.2

Question Number : 114 Question Id : 77951813322 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The Routh-Hurwitz criterion is used to determine

Options :

1. ✖ Relative stability

2. ✔ Absolute stability

3. ✖ Time response

4. ✖ Gain margin only

Question Number : 115 Question Id : 77951813323 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The time taken for the response to reach the first peak of the maximum overshoot is called

Options :

1. ✖ Rise time

2. ✖ Delay time

3. ✖ Settling time

4. ✔ Peak time

Question Number : 116 Question Id : 77951813324 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following is considered as a Solid-State (electronic) switch?

Options :

1. ✖ Push button

2. ✖ Toggle switch

3. ✔ Bipolar Junction Transistor

4. ✖ Rotary switch

Question Number : 117 Question Id : 77951813325 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which microphone is ideal for picking up sound from a specific, narrow direction?

Options :

1. ✖ Omnidirectional

2. ✖ Bidirectional

3. ✖ Cardioid

4. ✔ Shotgun

Question Number : 118 Question Id : 77951813326 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

When a PN junction is formed, which region becomes positively charged?

Options :

1. ✔ N-region

2. ✖ P-region

3. ✖ The central depletion region

4. ✖ Both sides equally

Question Number : 119 Question Id : 77951813327 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In an NPN transistor circuit, the arrow in the symbol points

Options :

1. ✔ Away from the base

2. ✖ Towards the base

3. ✖ Towards the collector

4. ✖ Away from the collector

Question Number : 120 Question Id : 77951813328 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

When a Zener diode is operating in the breakdown region, the voltage across it

Options :

1. ✔ Remains constant

2. ✖ Becomes zero

3. ✖ Increases with current

4. ✖ Decreases with current

Question Number : 121 Question Id : 77951813329 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In which region does a MOSFET operate as a constant current source?

Options :

1. ✖ Triode region

2. ✖ Ohmic region

3. ✔ Saturation region

4. ✖ Cut-off region

Question Number : 122 Question Id : 77951813330 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Why is a "bleeder resistor" usually connected in parallel with the load in an LC filter?

Options :

1. ✖ To increase the output voltage

2. ✖ To reduce the ripple factor

3. ✔ To prevent high voltage at no-load and ensure minimum current

4. ✖ To act as a shunt for high frequencies

Question Number : 123 Question Id : 77951813331 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Transformer coupled amplifiers are primarily used in

Options :

1. ✔ Audio power amplifiers

2. ✖ DC amplifiers

3. ✖ High frequency voltage amplifiers

4. ✖ High gain, small signal applications

Question Number : 124 Question Id : 77951813332 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What type of feedback is used in a Wien bridge oscillator for oscillations?

Options :

1. ✖ Negative feedback

2. ✔ Positive feedback

3. ✖ Cascaded feedback

4. ✖ Ratio feedback

Question Number : 125 Question Id : 77951813333 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What is the primary purpose of a Bootstrap sweep circuit?

Options :

1. ✔ To generate a perfectly linear ramp (Saw tooth) wave

2. ✖ To amplify a high frequency signal

3. ✖ To act as a voltage regulator

4. ✖ To convert AC to DC

Question Number : 126 Question Id : 77951813334 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In a Miller sweep circuit, the sweep initiates when the switch is

Options :

1. ✖ Closed

2. ✖ Shorted

3. ✖ Bypassed

4. ✔ Opened

Question Number : 127 Question Id : 77951813335 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

How many stable states does a monostable multivibrator have?

Options :

1. ✖ 0

2. ✔ 1

3. ✖ 2

4. ✖ 3

Question Number : 128 Question Id : 77951813336 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The octal number system is a base-8 system that uses digits ranging from

Options :

1. ✔ 0-7

2. ✖ 0-9

3. ✖ 1-8

4. ✖ 1-7

Question Number : 129 Question Id : 77951813337 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

How many NAND gates are required to implement an OR gate?

Options :

1. ✔ 3

2. ✖ 1

3. ✖ 2

4. ✖ 4

Question Number : 130 Question Id : 77951813338 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

To implement a full adder using only half adders, what is needed?

Options :

1. ✔ Two half adders and one OR gate

2. ✖ One half adder and two OR gates

3. ✖ Two half adders and one AND gate

4. ✖ Three half adders

Question Number : 131 Question Id : 77951813339 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

When both inputs J and K are set to 1 in a master-slave JK flip-flop, the output

Options :

1. ✖ Remains at 0

2. ✖ Remains at 1

3. ✖ Toggle on the leading edge

4. ✔ Toggle on the trailing edge (end of clock pulse)

Question Number : 132 Question Id : 77951813340 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What type of register allows data bits to be shifted left or right?

Options :

1. ✖ Parallel register

2. ✔ Shift register

3. ✖ Buffer register

4. ✖ Counter

Question Number : 133 Question Id : 77951813341 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

To load 4 bits of data in parallel into a 4-bit universal shift register, how many clock pulses are required?

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 134 Question Id : 77951813342 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The circuit used to store one bit of data is known as

Options :

1. ✖ Encoder

2. ✖ Decoder

3. ✔ Flip-flop

4. ✖ OR gate

Question Number : 135 Question Id : 77951813343 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In a N-bit successive approximation ADC, how many clock pulses are typically required for one full conversion?

Options :

1. ✖ N

2. ✔ N+1

3. ✖ 2N

4. ✖ 2^N

Question Number : 136 Question Id : 77951813344 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following is a major advantage of the R-2R ladder DAC over the weighted register DAC?

Options :

1. ✖ It requires fewer components

2. ✔ It uses only two different resistor values (R and 2R)

3. ✖ It is faster

4. ✖ It has high power dissipation

Question Number : 137 Question Id : 77951813345 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A binary weighed resistor DAC uses resistors with values that are multiples of what number?

Options :

1. ✔ 2

2. ✖ 1

3. ✖ 10

4. ✖ 16

Question Number : 138 Question Id : 77951813346 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following is used to extend the range of an analogue multi range ohm meter?

Options :

1. ✖ Series inductor

2. ✖ Series resistor

3. ✔ Selector switch with internal resistors

4. ✖ Variable voltage source

Question Number : 139 Question Id : 77951813347 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following is an alternative name for a differential voltmeter?

Options :

1. ✖ Moving iron voltmeter

2. ✔ Potentiometric voltmeter

3. ✖ Electrostatic voltmeter

4. ✖ True RMS meter

Question Number : 140 Question Id : 77951813348 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In a digital frequency meter, the input signal is converted into

Options :

1. ✖ Saw tooth wave

2. ✖ Triangle wave

3. ✖ Sine wave

4. ✔ Square / Pulse wave

Question Number : 141 Question Id : 77951813349 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following is an application of a CRO?

Options :

1. ✖ Controlling analog signals

2. ✔ Displaying waveform

3. ✖ Amplifying signals

4. ✖ Generating power

Question Number : 142 Question Id : 77951813350 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What is the typical frequency range of an AF oscillator?

Options :

1. ✔ 20 Hz – 20 kHz

2. ✖ 0-10 Hz

3. ✖ 1 MHz – 100 MHz

4. ✖ Above 1 GHz

Question Number : 143 Question Id : 77951813351 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In an RF signal generator, the frequency of the AC voltage supplied is

Options :

1. ✖ Fixed

2. ✔ Variable

3. ✖ Non – existent

4. ✖ Always 50 Hz

Question Number : 144 Question Id : 77951813352 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A Q-meter is generally used for measurement at

Options :

1. ✔ High frequencies (RF)

2. ✖ Low frequencies

3. ✖ DC only

4. ✖ Audio frequencies only

Question Number : 145 Question Id : 77951813353 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What is the difference between logic analyzer and an oscilloscope?

Options :

1. ✖ Oscilloscopes have more channels

2. ✔ Logic analyzers are better for timing, Oscilloscopes are better for analog shape

3. ✖ Logic analyzers display analog, oscilloscopes display digital

4. ✖ There is no difference

Question Number : 146 Question Id : 77951813354 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The sensitivity of an LVDT is normally expressed in which units?

Options :

1. ✔ Millivolts per millimeter (mV/mm)

2. ✖ Ohms per centimeter (Ω/cm)

3. ✖ Microfarad per meter (μF/m)

4. ✖ Volts per second (V/Sec)

Question Number : 147 Question Id : 77951813355 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A potentiometer displacement sensor works on the principle of

Options :

1. ✖ Mutual inductance

2. ✖ Self-inductance

3. ✔ Variable resistance transduction

4. ✖ Hall effect

Question Number : 148 Question Id : 77951813356 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Thermo couple is an example of

Options :

1. ✖ Passive transducer

2. ✔ Active transducer

3. ✖ Secondary transducer

4. ✖ Digital transducer

Question Number : 149 Question Id : 77951813357 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A Pyrometer is used for the measurement of

Options :

1. ✔ Very high temperatures

2. ✖ Low temperature

3. ✖ Pressure

4. ✖ Velocity

Question Number : 150 Question Id : 77951813358 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which material is commonly used for electric elements to ensure high elastic limit and fatigue resistance?

Options :

1. ✖ Lead

2. ✖ Copper

3. ✔ Beryllium Copper or Stainless Steel

4. ✖ Aluminum

Question Number : 151 Question Id : 77951813359 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Piezo electric sensors are considered "self-generating" because

Options :

1. ✖ They need a battery

2. ✖ They use a bridge circuit

3. ✔

They convert energy directly

4. ✖ They are very small

Question Number : 152 Question Id : 77951813360 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following is a head type flow meter?

Options :

1. ✖ Turbine meter

2. ✔ Orifice plate

3. ✖ Electromagnetic meter

4. ✖ Nutating disk

Question Number : 153 Question Id : 77951813361 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which type of Anemometer is most common in traditional weather stations?

Options :

1. ✖ Hot-wire anemometer

2. ✖ Pitot tube

3. ✖ Laser Doppler anemometer

4. ✔ Cup anemometer

Question Number : 154 Question Id : 77951813362 Question Type : MCQ

Correct Marks : 1 Wrong Marks : 0

Ultrasonic flow meters are capable of measuring

Options :

1. ✖ Forward flow only

2. ✖ Reverse flow only

3. ✔ Both forward and reverse flow

4. ✖ Only gas flow

Question Number : 155 Question Id : 77951813363 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What is the standard SI unit for weight flow rate?

Options :

1. ✖ Kg.s

2. ✖ m^3/s

3. ✔ N/s

4. ✖ Pa.s

Question Number : 156 Question Id : 77951813364 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What is the value of relative humidity when the air is fully saturated?

Options :

1. ✖ 0%

2. ✖ 50%

3. ✔ 100%

4. ✖ 200%

Question Number : 157 Question Id : 77951813365 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What happens to the viscosity of liquids with an increase in temperature?

Options :

1. ✔ Decreases

2. ✖ Increases

3. ✖ Remains the same

4. ✖ Becomes infinite

Question Number : 158 Question Id : 77951813366 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A thermistor is a type of device whose resistance varies based on

Options :

1. ✖ Pressure

2. ✖ Light

3. ✔ Temperature

4. ✖ Humidity

Question Number : 159 Question Id : 77951813367 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which type of fluids can be measured using an electromagnetic flow meter?

Options :

1. ✖ Non-conductive liquids

2. ✔ Electrically conductive liquids and slurries

3. ✖ Gases

4. ✖ Steam

Question Number : 160 Question Id : 77951813368 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

On-off control is also known as

Options :

1. ✖ Proportional control

2. ✖ Derivative control

3. ✔ Two-position control

4. ✖ Integral control

Question Number : 161 Question Id : 77951813369 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

As the proportional band is decreased (i.e., gain is increased), the system response becomes

Options :

1. ✔ Less stable and faster

2. ✖ More stable and faster

3. ✖ Less stable and slower

4. ✖ More stable and slower

Question Number : 162 Question Id : 77951813370 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What is the primary purpose of an integral controller in process control?

Options :

1. ✖ To increase stability

2. ✖ To reduce the rise time

3. ✔ To eliminate off-set (steady state error)

4. ✖ To increase the speed of response

Question Number : 163 Question Id : 77951813371 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The Derivative controller acts as a

Options :

1. ✖ Phase – lag compensator

2. ✔ Phase – lead compensator

3. ✖

Low – pass filter

4. ✖ Integrator

Question Number : 164 Question Id : 77951813372 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What does the "reset windup" phenomenon refer to in a PID controller?

Options :

1. ✔ The controller output saturates due to accumulated integral error

2. ✖ The derivative term is too high

3. ✖ The process variable matches the set point

4. ✖ The proportional band is too wide

Question Number : 165 Question Id : 77951813373 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What is the ultimate gain in the Ziegler-Nichols tuning method?

Options :

1. ✖ The gain that causes the process to stop

2. ✖ The gain that results in a 1% overshoot

3. ✔ The proportional gain at which the system produces sustained oscillations

4. ✖ The maximum possible gain of the valve

Question Number : 166 Question Id : 77951813374 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which type of pneumatic actuator is most commonly used to operate industrial globe control valves?

Options :

1. ✔ Spring and diaphragm actuator

2. ✖ Vane actuator

3. ✖ Stepper motor

4. ✖ Rack and Pinion actuator

Question Number : 167 Question Id : 77951813375 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In an electro – hydraulic actuator, what is the primary role of the "electro" component?

Options :

1. ✖ To increase the viscosity of the hydraulic fluid

2. ✔ To provide electrical power to a motor that drives a hydraulic pump

3. ✖ To directly move the piston using magnetic field

4. ✖ To acts as a receiver for the hydraulic coil

Question Number : 168 Question Id : 77951813376 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In a cascade control scheme, the inner loop is typically designed to be

Options :

1. ✖ Slower than the outer loop

2. ✖ As fast as the outer loop

3. ✔ Much faster than the outer loop

4. ✖ Un affected by noise

Question Number : 169 Question Id : 77951813377 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What is a common disadvantage of using radio controllers in a process control environment?

Options :

1. ✖ Low signal amplitude

2. ✔ Susceptibility to interference and noise

3. ✖ Inability to use PID algorithms

4. ✖ High power consumption of the transducer

Question Number : 170 Question Id : 77951813378 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The three main functions of an Adaptive control system are

Options :

1. ✔ Identification, Decision, Modification

2. ✖ Simulation, Calculation, Optimization

3. ✖ Sensing, Actuating, Recording

4. ✖ Filtering, Feedback, Feed forward

Question Number : 171 Question Id : 77951813379 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A pressure control loop has a tag "PT-200". What does 'PT' stand for?

Options :

1. ✖ Pipe Transmitter

2. ✖ Pressure Temperature

3. ✔ Pressure Transmitter

4. ✖ Process Transducer

Question Number : 172 Question Id : 77951813380 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A line with a "D" in the middle typically represents what kind of signal?

Options :

1. ✖ Digital network

2. ✔ Digital data link

3. ✖ Digital pneumatic

4. ✖ Direct signal

Question Number : 173 Question Id : 77951813381 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following is NOT a common actuator component?

Options :

1. ✖ Diaphragm

2. ✖ Stem

3. ✖ Yoke

4. ✔ Impeller

Question Number : 174 Question Id : 77951813382 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following is considered a non-linear application of an op-amp?

Options :

1. ✖ Inverting amplifier

2. ✔ Schmitt trigger

3. ✖ Non-inverting amplifier

4. ✖ Instrumentation amplifier

Question Number : 175 Question Id : 77951813383 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

How many pins does a standard 555 timer IC package have?

Options :

1. ✖ 4

2. ✖ 6

3. ✔ 8

4. ✖ 18

Question Number : 176 Question Id : 77951813384 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Why is a voltage follower used in circuit design?

Options :

1. ✖ To amplify weak signals

2. ✖ To invert the output signal

3. ✔ To provide high input impedance and low output impedance

4. ✖ To act as a filter

Question Number : 177 Question Id : 77951813385 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A square wave generator is also known as a

Options :

1. ✖ One shot multivibrator

2. ✔ Astable multivibrator

3. ✖ Bistable multivibrator

4. ✖ Schmitt trigger

Question Number : 178 Question Id : 77951813386 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The Wien bridge oscillator is commonly used in which frequency range?

Options :

1. ✖ Radio Frequency (RF)

2. ✔ Audio Frequency (AF)

3. ✖ Microwave Frequency

4. ✖ Very High Frequency (VHF)

Question Number : 179 Question Id : 77951813387 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

How many operational amplifiers are typically used to build a standard instrumentation amplifier circuit?

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 180 Question Id : 77951813388 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The output of a Schmitt trigger circuit is always

Options :

1. ✖ Analog

2. ✖ Triangular

3. ✔ Digital (high or low)

4. ✖ A saw tooth wave

Question Number : 181 Question Id : 77951813389 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which block in the Phase Locked Loop circuit compares the input frequency with the feedback frequency?

Options :

1. ✖ Low pass filter

2. ✖ Amplifier

3. ✔ Phase detector

4. ✖ VCO

Question Number : 182 Question Id : 77951813390 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which radiation region is commonly used in Fourier Transform Infrared (FTIR) Spectrometers?

Options :

1. ✖ Ultra Violet

2. ✔ Infrared

3. ✖

X-ray

4. ✖ Radio waves

Question Number : 183 Question Id : 77951813391 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following components in a Flame Photometer is used to introduce the sample into the flame?

Options :

1. ✔ Nebulizer / Aspirator

2. ✖ Burner

3. ✖ Monochromator

4. ✖ Photo decoder

Question Number : 184 Question Id : 77951813392 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which gas is commonly used as a carrier gas in gas chromatography-based analyzers?

Options :

1. ✖ Carbon dioxide

2. ✖ Oxygen

3. ✖ Nitrogen

4. ✔ Hydrogen or Helium

Question Number : 185 Question Id : 77951813393 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

On what basis does a mass spectrometer separate ions?

Options :

1. ✖ Mass

2. ✖ Charge

3. ✖ Molecular weight

4. ✔ Mass to charge ratio

Question Number : 186 Question Id : 77951813394 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following light sources is commonly used in a standard Polarimeter?

Options :

1. ✖ Deuterium lamp

2. ✖ Tungsten lamp

3. ✔ Sodium vapor lamp

4. ✖ Xenon arc lamp

Question Number : 187 Question Id : 77951813395 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In a double-beam Spectrophotometer, the light is split to pass through

Options :

1. ✖

Two different samples

2. ✖ The sample twice

3. ✔ The sample and a reference (blank) simultaneously

4. ✖ A filter and a monochromator

Question Number : 188 Question Id : 77951813396 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What is the frequency range of a normal EEG signal?

Options :

1. ✔ 0.5-50 Hz

2. ✖ 100-500 Hz

3. ✖ 500-1000 Hz

4. ✖ 0.01-0.1 Hz

Question Number : 189 Question Id : 77951813397 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A Pacemaker is primarily designed for

Options :

1. ✖ Monitoring blood pressure

2. ✖ Defibrillation

3. ✖

Measuring EEG signal

4. ✔ Initiation of heart beats

Question Number : 190 Question Id : 77951813398 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What is the function of the vacuum inside an X-ray tube?

Options :

1. ✖ To increase the speed of X-rays

2. ✔ To prevent collision of electrons with gas molecules

3. ✖ To cool the anode

4. ✖ To increase the voltage

Question Number : 191 Question Id : 77951813399 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What is the CT number for water?

Options :

1. ✖ -1000

2. ✔ 0

3. ✖ +1000

4. ✖ +100

Question Number : 192 Question Id : 77951813400 Question Type : MCQ

Correct Marks : 1 Wrong Marks : 0

What type of waveform is typically used in modern, efficient defibrillators?

Options :

1. ✖ Monophasic

2. ✖ Sine wave

3. ✖ Square wave

4. ✔ Biphasic

Question Number : 193 Question Id : 77951813401 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What does ARM stand for in ARM Microcontroller?

Options :

1. ✖ Advanced Robotics Microcontroller

2. ✖ Advanced Radio Module

3. ✔ Advanced RISC Machine

4. ✖ Advanced Remote Monitoring

Question Number : 194 Question Id : 77951813402 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which register is used as the Program Counter (PC) in ARM architecture?

Options :

1. ✖ R0

2. ✖ R13

3. ✖ R14

4. ✔ R15

Question Number : 195 Question Id : 77951813403 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In advanced ARM controllers, what does the "DSP extension" provide?

Options :

1. ✖ Increased flash memory

2. ✖ Enhanced security

3. ✔ Single – cycle Multiply Accumulate (MAC) instruction

4. ✖ Faster I/O toggling

Question Number : 196 Question Id : 77951813404 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

How many analog input pins are available on a standard Arduino UNO board?

Options :

1. ✔ 6

2. ✖ 4

3. ✖ 8

4. ✖ 12

Question Number : 197 Question Id : 77951813405 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What language is a typical Arduino code based on?

Options :

1. ✖ JAVA

2. ✖ Python

3. ✖ Assembly code

4. ✔ C/C++

Question Number : 198 Question Id : 77951813406 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which instruction is used to reset a Retentive Timer (RTO) or a counter?

Options :

1. ✖ CLR

2. ✔ RES (reset)

3. ✖ OTL

4. ✖ OTU

Question Number : 199 Question Id : 77951813407 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What is the physical structure of the robot that moves around called?

Options :

1. ✔

Manipulator

2. ✖ End – effector

3. ✖ Joint

4. ✖ Link

Question Number : 200 Question Id : 77951813408 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What is the full form of CNC?

Options :

1. ✖ Computer Network Control

2. ✖ Computer Number Control

3. ✔ Computer Numerical Control

4. ✖ Computer Numerical Centre