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 :	Agricultural Engineering 23rd Apr 2026 Shift 1
Subject Name :	Agricultural Engineering
Creation Date :	2026-04-23 15:16:20
Duration :	180
Total Marks :	200
Display Marks:	No
Change Font Color :	No
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Agricultural Engineering

Group Number :	1
Group Id :	77951852
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	200

Mathematics

Section Id :	779518202
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 :	779518214
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 77951810207 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In the matrix $A = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 4 & 9 \end{bmatrix}$, the minor M_{23} of the a_{23} is

Options :

1. ✖ 10

2. ✔ -10

3. ✖ -6

4. ✖ 6

Question Number : 2 Question Id : 77951810208 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $\begin{vmatrix} 2x & 5 \\ 8 & x \end{vmatrix} = \begin{vmatrix} 6 & -2 \\ 7 & 3 \end{vmatrix}$ then the value of x is

Options :

1. ✖ 3

2. ✔ ± 6

3. ✖ -3

4. ✖ ± 2

Question Number : 3 Question Id : 77951810209 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If A is a square matrix of order 3 and $|A| = 5$, then the value of $|2A^T|$ is

Options :

1. ✖ -10

2. ✖ 10

3. ✔ 40

4. ✖ -40

Question Number : 4 Question Id : 77951810210 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following systems has non trivial solution ?

Options :

1. ✖ $AX = 0\ ,\ |A| = 4$

2. ✖ $AX = 0\ ,\ |A| = -4$

3. ✔ $AX = 0\ ,\ |A| = 0$

4. ✖ $AX = B\ ,\ |B| = 5$

Question Number : 5 Question Id : 77951810211 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $\begin{bmatrix} x+y & 2 \\ 1 & x-y \end{bmatrix} = \begin{bmatrix} 4 & 2 \\ 1 & 2 \end{bmatrix}$, then the values of x and y are:

Options :

1. ✔ $x = 3, y = 1$

2. ✖ $x = 1, y = 3$

3. ✖ $x = 2, y = 3$

4. ✖ $x = 1, y = 1$

Question Number : 6 Question Id : 77951810212 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $\frac{x+4}{(x+2)^2(x+3)} = \frac{A}{(x+2)^2} + \frac{B}{(x+2)} + \frac{C}{(x+3)}$ then A + B +C =

Options :

1. ✔ 2

2. ✖ 1

3. ✖ -1

4. ✖ 3

Question Number : 7 Question Id : 77951810213 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $\frac{x}{(x-1)^2(x+2)} = \frac{A}{(x-1)^2} + \frac{2}{9(x-1)} + \frac{B}{(x+2)}$ then A + B =

Options :

1. ✖ 1/3

2. ✔

3. ✖ -1/3

4. ✖ 2/3

Question Number : 8 Question Id : 77951810214 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $tan\,A = \frac{1}{2}$ *and* $\tan B = \frac{1}{3}$, then A + B =

Options :

1. ✖ 30^o

2. ✔ 45^o

3. ✖ 60^o

4. ✖ 90^o

Question Number : 9 Question Id : 77951810215 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $2sin^{-1}x = sin^{-1}k$ then k =

Options :

1. ✔ $2x\sqrt{1-x^2}$

2. ✖ $2x$

3. ✖ x^2

4. ✖ $1-2x^2$

Question Number : 10 Question Id : 77951810216 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $sin^{-1}\frac{5}{x} + sin^{-1}\frac{12}{x} = \frac{\pi}{2}$, then x =

Options :

1. ✖ 12

2. ✖ 7

3. ✔ 13

4. ✖ 15

Question Number : 11 Question Id : 77951810217 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The number of solutions of the equation sin 2x - cos 2x = 2 - sin 2x lying in the interval $[0, \pi]$ is

Options :

1. ✖ 0

2. ✖ 1

3. ✔ 2

4. ✖ 3

Question Number : 12 Question Id : 77951810218 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $\tan\theta + \sec\theta = \sqrt{3}$ then the principal value of θ in $[0, 2\pi]$ is

Options :

1. ✖ $\pi/4$

2. ✔ $\pi/6$

3. ✖ $\pi/2$

4. ✖ $2\pi/3$

Question Number : 13 Question Id : 77951810219 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$\frac{\tan x-1+\sec x}{\tan x-\sec x+1} =$

Options :

1. ✖ $\frac{1-\sin x}{\cos x}$

2. ✔ $\frac{1+\sin x}{\cos x}$

3. ✖ $\frac{1+\cos x}{\sin x}$

4. ✖ $\frac{1-\cos x}{\sin x}$

Question Number : 14 Question Id : 77951810220 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$tan9^o - tan\ 27^o - tan\ 63^o + tan\ 81^o =$

Options :

1. ✖ 2

2. ✖ 1

3. ✔ 4

4. ✖ 3

Question Number : 15 Question Id : 77951810221 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $\cos\theta = \frac{1}{2}\left(a + \frac{1}{a}\right)$, then $4\cos^3\theta - 3\cos\theta =$

Options :

1. ✖ $a^3 + \frac{1}{a^3}$

2. ✔ $\frac{1}{2}(a^3 + \frac{1}{a^3})$

3. ✖ $\frac{1}{4}(a^3 + \frac{1}{a^3})$

4. ✖ $\frac{1}{3}(a^3 + \frac{1}{a^3})$

Question Number : 16 Question Id : 77951810222 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$\cos 6^o \sin 24^o \cos 72^o =$

Options :

1. ✖ 1/4

2. ✖ -1/8

3. ✖ -1/4

4. ✔ 1/8

Question Number : 17 Question Id : 77951810223 Question Type : MCQ

Correct Marks : 1 Wrong Marks : 0

$tan^{-1}1 + tan^{-1}2 + tan^{-1}3 =$

Options :

1. ✖ $3\pi/4$

2. ✖ $\pi/2$

3. ✔ π

4. ✖ 2π

Question Number : 18 Question Id : 77951810224 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $z_1 = 4i^{40} - 5i^{35} + 6i^{17} + 2,\ z_2 = -1 + i$ then $|z_1 + z_2| =$

Options :

1. ✔ 13

2. ✖ 5

3. ✖ 15

4. ✖ 12

Question Number : 19 Question Id : 77951810225 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The conjugate of $(1 + i)^3$ is

Options :

1. ✖ $1 + 2i$

2. ✖ $-2 + 2i$

3. ✔ $-2-2i$

4. ✖ $1-2i$

Question Number : 20 Question Id : 77951810226 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The equation of a circle whose Centre is (-3, 2) and area is 176 units is

Options :

1. ✖ $x^2+y^2+6x-4y-36=0$

2. ✔ $x^2+y^2+6x-4y-43=0$

3. ✖ $x^2+y^2-6x+4y-36=0$

4. ✖ $x^2+y^2-6x+4y-43=0$

Question Number : 21 Question Id : 77951810227 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The equation of a circle whose Centre is (2, -1) and which passes through the point (3,6) is

Options :

1. ✖ $x^2+y^2+4x+2y-45=0$

2. ✖ $x^2+y^2-2x+2y-50=0$

3. ✖ $x^2+y^2+2x+2y-50=0$

4. ✔ $x^2+y^2-4x+2y-45=0$

Question Number : 22 Question Id : 77951810228 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If the parabola $y^2 = 4ax$ passes through the point $(3, 2)$ then the length of its latus rectum is:

Options :

1. ✔ $4/3$

2. ✖ 4

3. ✖ $2/3$

4. ✖ $1/3$

Question Number : 23 Question Id : 77951810229 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The line $y = mx + 2$ is a tangent to the parabola $y^2 = 8x$ if

Options :

1. ✔ $m = 1$

2. ✖ $m = 2$

3. ✖ $m = 3$

4. ✖ $m = 4$

Question Number : 24 Question Id : 77951810230 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The length of the latusrectum and eccentricity of the Hyperbola $9x^2 - 16y^2 = 144$ are

Options :

1. ✖ $(\frac{9}{4}, \frac{5}{4})$

2. ✔ $(\frac{9}{2}, \frac{5}{4})$

3. ✖ $(\frac{9}{2}, \frac{5}{2})$

4. ✖ $(9, \frac{5}{2})$

Question Number : 25 Question Id : 77951810231 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The equation of the ellipse with foci at $(\pm 3, 0)$ and the eccentricity as 1/3 is :

Options :

1. ✔ $\frac{x^2}{81} + \frac{y^2}{72} = 1$

2. ✖ $\frac{x^2}{9} + \frac{y^2}{8} = 1$

3. ✖ $\frac{x^2}{8} + \frac{y^2}{9} = 1$

4. ✖ $\frac{x^2}{3} + \frac{y^2}{2} = 1$

Question Number : 26 Question Id : 77951810232 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$\lim_{x \to \infty} \left(1 + \frac{1}{x}\right)^x =$

Options :

1. ✖ 0

2. ✖ 1

3. ✔ e

4. ✖ ∞

Question Number : 27 Question Id : 77951810233 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$\lim_{x\to 0} \frac{\sqrt{1+x}-1}{x} =$

Options :

1. ✖ 0

2. ✔ $1/2$

3. ✖ 1

4. ✖ ∞

Question Number : 28 Question Id : 77951810234 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$If\ \ y = \frac{(a\cos x + b\sin x + C)}{\sin x} \quad \text{then } \frac{dy}{dx} =$

Options :

1. ✔ $-a\operatorname{cosec}^2 x - c\ \operatorname{cosec} x \cot x$

2. ✖ $-a$

3. ✖ $-a\operatorname{cosec}^2 x + b\sec^2 x + c\ \operatorname{cosec} x \cot x$

4. ✖ $a\,cosec^2 x - c\,cosec\,x\cot x$

Question Number : 29 Question Id : 77951810235 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$If\ y = \sqrt{x + \sqrt{x + \sqrt{x + ----\infty}}}$ then $\frac{dy}{dx} =$

Options :

1. ✖ $\frac{1}{2y}$

2. ✖ $\frac{1}{1-2y}$

3. ✖ $\frac{1}{2(1-2y)}$

4. ✔ $\frac{-1}{1-2y}$

Question Number : 30 Question Id : 77951810236 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Slope of the tangent to the curve $y = 9x^2 + 7x^4 + 5$ *at the point* $x = 1$ is

Options :

1. ✖ 28

2. ✖ 16

3. ✔ 46

4. ✖ 1/46

Question Number : 31 Question Id : 77951810237 Question Type : MCQ

Correct Marks : 1 Wrong Marks : 0

If $f(x) = \begin{cases} 4(5^x) & x < 0 \\ 8k + x & x \geq 0 \end{cases}$ then $f'(-1) =$

Options :

1. ✖ $\frac{2}{5}\log 5$

2. ✔ $\frac{4}{5}\log 5$

3. ✖ $\frac{3}{5}\log 5$

4. ✖ $20 \log 5$

Question Number : 32 Question Id : 77951810238 Question Type : MCQ

Correct Marks : 1 Wrong Marks : 0

$If\ 2^x + 2^y = 2^{x+y}$, then $\frac{dy}{dx} =$

Options :

1. ✔ $1 - 2^y$

2. ✖ $1 - \frac{1}{2^y}$

3. ✖ $1 + 2^{-y}$

4. ✖ $1 + 2^y$

Question Number : 33 Question Id : 77951810239 Question Type : MCQ

Correct Marks : 1 Wrong Marks : 0

If $y + sin^{-1}(1 - x^2) = e^x$, then $\frac{dy}{dx} =$

Options :

1. ✖ $e^x - \frac{2}{\sqrt{2-x^2}}$

2. ✖ $e^x - \frac{2}{\sqrt{2+x^2}}$

3. ✔ $e^x + \frac{2}{\sqrt{2-x^2}}$

4. ✖ $e^x + \frac{2}{\sqrt{2+x^2}}$

Question Number : 34 Question Id : 77951810240 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $y(x) = x^x$, $x > 0$, then $y''(2) - 2y'(2) =$

Options :

1. ✖ $4\log_e 2 - 2$

2. ✖ $4\log_e 2 + 2$

3. ✖ $4(\log_e 2)^2 + 2$

4. ✔ $4(\log_e 2)^2 - 2$

Question Number : 35 Question Id : 77951810241 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $z = x^2y^3 + e^y \sin x$, then $\frac{\partial^2 z}{\partial x \partial y} =$

Options :

1. ✔ $6xy^2 + e^y \cos x$

2. ✖ $3x^2y^2 + e^y \sin x$

3. ✖ $3x^2y^2 + e^y \cos x$

4. ✖ $6xy^2 + e^y \sin x$

Question Number : 36 Question Id : 77951810242 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$$\int \frac{dx}{sin^2x\ cos^2x} =$$

Options :

1. ✖ $tanx + \cot x + c$

2. ✔ $tanx - \cot x + c$

3. ✖ $tanx \cot x + c$

4. ✖ $tanx + \sec x + c$

Question Number : 37 Question Id : 77951810243 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$$\int \frac{dx}{\sqrt{x+1} + \sqrt{x}} =$$

Options :

1. ✔ $\frac{2}{3}[(x+1)^{\frac{3}{2}} - (x)^{\frac{3}{2}}] + c$

2. ✖ $\frac{2}{3}[(x+1)^{\frac{3}{2}} + (x)^{\frac{3}{2}}] + c$

3. ✖ $\frac{3}{2}[(x+1)^{\frac{3}{2}} - (x)^{\frac{3}{2}}] + c$

4. ✖ $\frac{3}{2}[(x+1)^{\frac{3}{2}} + (x)^{\frac{3}{2}}] + c$

Question Number : 38 Question Id : 77951810244 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $\int \frac{sin^3 x + cos^3 x}{sin^2 x \ cos^2 x} dx = A \sec x + B \ cosec \ x + c$, then (A , B) are

Options :

1. ✖ $(1, 1)$

2. ✖ $(-1, -1)$

3. ✔ $(1, -1)$

4. ✖ $(-1, 1)$

Question Number : 39 Question Id : 77951810245 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The integral of $f(x) = 1 + x^2 + x^4$ with respect to $x^2$is

Options :

1. ✖ $x + \frac{x^3}{3} + \frac{x^5}{5} + C$

2. ✖ $\frac{x^3}{3} + \frac{x^5}{5} + C$

3. ✖ $x^2 + \frac{x^4}{4} + \frac{x^6}{6} + C$

4. ✔ $x^2 + \frac{x^4}{2} + \frac{x^6}{3} + C$

Question Number : 40 Question Id : 77951810246 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$$\int_0^{\frac{\pi}{2}} \frac{sin^{100}x}{sin^{100}x+cos^{100}x}\,dx\ =$$

Options :

1. ✖ $\pi/2$

2. ✔ $\pi/4$

3. ✖ 100

4. ✖ 50

Question Number : 41 Question Id : 77951810247 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$$\int_0^1 x\sqrt{x^2+4}\,dx\ =$$

Options :

1. ✖ $\frac{1}{3}[5\sqrt{5}-4]$

2. ✖ $\frac{1}{2}[5\sqrt{5}-8]$

3. ✔ $\frac{1}{3}[5\sqrt{5}-8]$

4. ✖ $\frac{1}{3}[5\sqrt{5}+4]$

Question Number : 42 Question Id : 77951810248 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$$\int_{-\pi/6}^{\pi/6} \frac{sin^5x\ cos^3x}{x^4}\,dx\ =$$

Options :

1. ✖ $\pi/2$

2. ✖ $\pi/4$

3. ✔ 0

4. ✖ 1

Question Number : 43 Question Id : 77951810249 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

$$\int \frac{dx}{\sqrt{16-25x^2}} =$$

Options :

1. ✔ $\frac{1}{5}sin^{-1}\left(\frac{5x}{4}\right)+c$

2. ✖ $sin^{-1}\left(\frac{5x}{4}\right)+c$

3. ✖ $\frac{1}{5}sin^{-1}\left(\frac{x}{4}\right)+c$

4. ✖ $\frac{1}{5}sin^{-1}\left(\frac{4x}{5}\right)+c$

Question Number : 44 Question Id : 77951810250 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The solution of the differential equation $x\frac{dy}{dx}+y=0$ passing through the point (1,1) is y =

Options :

1. ✖ x^2

2. ✔ x^{-1}

3. ✖ x^{-2}

4. ✖ x

Question Number : 45 Question Id : 77951810251 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Degree of the differential equation $y = x\frac{dy}{dx} + a\sqrt{1 + (\frac{dy}{dx})^2}$ is

Options :

1. ✖ 4

2. ✖ 3

3. ✔ 2

4. ✖ 1

Question Number : 46 Question Id : 77951810252 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The order of the differential equation of all circles passing through the origin and having their centers on the x – axis is

Options :

1. ✖ 4

2. ✖ 3

3. ✖ 2

4. ✔ 1

Question Number : 47 Question Id : 77951810253 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If a and b are arbitrary constants, then the differential equation representing the family of curves $y = a\sin(x+b)$ is

Options :

1. ✖ $\frac{d^2y}{dx^2} - y = 0$

2. ✔ $\frac{d^2y}{dx^2} + y = 0$

3. ✖ $\frac{d^2y}{dx^2} - y^2 = 0$

4. ✖ $\frac{dy}{dx} - y = 0$

Question Number : 48 Question Id : 77951810254 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The differential equation is $\frac{dy}{dx} + \frac{y}{x} = 0$ and $y(1) = 2$. Then the value of $y(3) =$

Options :

1. ✖ 2

2. ✖ 3

3. ✔ 2/3

4. ✖ 1

Question Number : 49 Question Id : 77951810255 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The general solution of the differential equation $\frac{dy}{dx} = e^{x-y} + x^2e^{-y}$ is

Options :

1. ✖ $e^{-y} = e^x + \frac{x^3}{3} + c$

2. ✔ $e^y = e^x + \frac{x^3}{3} + c$

3. ✖ $e^y = e^x + x^3 + c$

4. ✖ $e^y = e^x + c$

Question Number : 50 Question Id : 77951810256 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The differential equation is $\frac{dy}{dx} + y\tan x = \sec x$ and $y(0) = 1$. Then the value of $y\left(\frac{\pi}{4}\right) =$

Options :

1. ✖ 0

2. ✔ $\sqrt{2}$

3. ✖ 1

4. ✖ -1

Physics

Section Id :	77951820
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 :	779518215
Question Shuffling Allowed :	Yes

Question Number : 51 Question Id : 77951810257 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If P = F. v Sin βt where **F** is force and **v** is velocity then the dimensions of P and β are

Options :

1. ✔ ML^2T^{-3}, T^{-1}

2. ✖ $ML\,T^{-2}, T^{-2}$

3. ✖ ML^2T^{-1}, T^{-1}

4. ✖ ML^2T^3, T^{-2}

Question Number : 52 Question Id : 77951810258 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If velocity V, energy E and time T are chosen as fundamental quantities then dimensional representation of surface tension in this system will be

Options :

1. ✔ $E^1V^{-2}T^{-2}$

2. ✖ $E^1V^{-1}T^{-2}$

3. ✖ $E^{-2}V^{-1}T^{-3}$

4. ✖ $E^{1}V^{-2}T^{-1}$

Question Number : 53 Question Id : 77951810259 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If $|\mathbf{A} + \mathbf{B}| = |\mathbf{A} - \mathbf{B}|$, then the angle between the two vectors **A** and **B** is

Options :

1. ✖ 0°

2. ✖ 180°

3. ✖ 120°

4. ✔ 90°

Question Number : 54 Question Id : 77951810260 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

An aeroplane is moving in a circular path with a speed of 450 Kmph. What is the change in velocity in half revolution?

Options :

1. ✖ 0 Kmph

2. ✖ 450 Kmph

3. ✖ 250 Kmph

4. ✔ 900 Kmph

Question Number : 55 Question Id : 77951810261 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The ratio between maximum and minimum values of two vectors $\vec{A}$ and $\vec{B}$ $(\vec{A} > \vec{B})$ is 1:4. Then the ratio between the magnitudes of two vectors is

Options :

1. ✖ 3:2

2. ✔ 5:3

3. ✖ 2:3

4. ✖ 3:5

Question Number : 56 Question Id : 77951810262 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The magnitudes of three vectors $\vec{A}, \vec{B}$ and $\vec{C}$ are 12, 5 and 13 units respectively and $\vec{A} + \vec{B} = \vec{C}$. The angle between $\vec{A}$ and $\vec{B}$ is

Options :

1. ✖ $0°$

2. ✖ $120°$

3. ✔ $90°$

4. ✖ $45°$

Question Number : 57 Question Id : 77951810263 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A body falling from height 'H' takes time 'T' seconds to reach the ground. The time taken to cover the second half of height is

Options :

1. ✖ $\frac{T}{\sqrt{2}}$

2. ✖ $\sqrt{2}\,T$

3. ✔ $\left(\frac{\sqrt{2}-1}{\sqrt{2}}\right)$ T

4. ✖ $\left(\frac{1}{\sqrt{2}-1}\right)$ T

Question Number : 58 Question Id : 77951810264 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

With what speed a body be thrown upwards so that the distances covered in the 5^{th} second and 6^{th} second are equal?

Options :

1. ✖ 75 m/s

2. ✖ $\sqrt{98}$ m/s

3. ✔ 49 m/s

4. ✖ 19.8 m/s

Question Number : 59 Question Id : 77951810265 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A body of mass 1 kg starts moving from rest under the action of a force which varies with displacement as $F = 2x + 5$ (in newtons). The work done by this force to displace the body from $x = 0$ to $x = 2$ m is:

Options :

1. ✖ 8 J

2. ✖ 10 J

3. ✖

12 J

4. ✔ 14 J

Question Number : 60 Question Id : 77951810266 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The potential energy of a particle is given by $U(x) = 20 + (x-2)^2$, where U is in joules and x in meters. The minimum potential energy and the position where it occurs are:

Options :

1. ✔ 20 J at $x = 2$

2. ✖ 2 J at $x = 20$ m

3. ✖ 22 J at $x = 2$ m

4. ✖ 0 J at $x = 2$ m

Question Number : 61 Question Id : 77951810267 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Power supplied to a particle of mass 2 kg varies with time as $P = 3t^2/2$ watt, where t is in seconds. If velocity at $t = 0$ is zero, the velocity at $t = 2$ s is:

Options :

1. ✖ 1 m/s

2. ✔ 2 m/s

3. ✖ $\sqrt{2}$ m/s

4. ✖

4 m/s

Question Number : 62 Question Id : 77951810268 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A pump is used to deliver water at a certain rate from a given pipe. To obtain **twice** the volume of water from the same pipe in the same time, by what factor must the power of the motor pump be increased? (Assume ideal conditions, $g = 10\ ms^{-2}$)

Options :

1. ✖ 4

2. ✔ 8

3. ✖ 16

4. ✖ 32

Question Number : 63 Question Id : 77951810269 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Two identical piano wires, when tuned to a fundamental frequency of 400 Hz, produce no beats. One wire is then slightly tightened, and the beat frequency heard is 2 Hz. What is the new fundamental frequency of the tightened wire?

Options :

1. ✖ 398 Hz

2. ✔ 402 Hz

3. ✖ 404 Hz

4. ✖ 396 Hz

Question Number : 64 Question Id : 77951810270 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A source of sound of frequency 500Hz is moving towards an observer with velocity 30m/s. The speed of sound is 330m/s. The frequency heard by the observer will be:

Options :

1. ✖ 450 Hz

2. ✔ 550 Hz

3. ✖ 600 Hz

4. ✖ 500 Hz

Question Number : 65 Question Id : 77951810271 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In Acoustics, 'Noise' is generally characterized by:

Options :

1. ✔ Irregular and non-periodic vibrations.

2. ✖ A constant pitch and frequency

3. ✖ Vibrations that follow a harmonic series

4. ✖ Regular and periodic vibrations

Question Number : 66 Question Id : 77951810272 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If the volume of a room is doubled and the total absorption is halved, the reverberation time will:

Options :

1. ✖ Remain unchanged

2. ✖ Be doubled

3. ✔ Become four times

4. ✖ Be halved

Question Number : 67 Question Id : 77951810273 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

. In a closed hall of volume 5000 m^3, the total absorption of the interior surfaces is 200 metric sabin . The reverberation time is:

Options :

1. ✖ 1 s

2. ✖ 2 s

3. ✖ 3 s

4. ✔ 4 s

Question Number : 68 Question Id : 77951810274 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In an Isothermal process

Options :

1. ✖ Internal energy of the system never remains constant

2. ✖ Total heat energy of the system remains constant

3. ✖ Volume of the system remains constant

4. ✔ Temperature of the system remains constant

Question Number : 69 Question Id : 77951810275 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If the pressure of an ideal gas is doubled and its absolute temperature is halved; the volume will become:

Options :

1. ✔ 1/4 of initial volume

2. ✖ 1/2 initial volume

3. ✖ Same as initial volume

4. ✖ 2 times of initial volume

Question Number : 70 Question Id : 77951810276 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

At constant temperature, the product PV is plotted against pressure P for an ideal gas. The graph obtained is:

Options :

1. ✔ Straight line parallel to P-axis

2. ✖ Straight line with positive slope

3. ✖ Straight line through origin

4. ✖ Parabola

Question Number : 71 Question Id : 77951810277 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A bubble of an ideal gas rises from the bottom of a lake to the surface. At the bottom, the pressure is 3 Atm. and the temperature is 7 °C. At the surface, the pressure is 1 atm. and the temperature is 27°C. If the initial volume of the bubble was V_0 what is its volume V_f at the surface?

Options :

1. ✖ $3\ V_0$

2. ✔ $3.21\ V_0$

3. ✖ $0.9\ V_0$

4. ✖ $5.4\ V_0$

Question Number : 72 Question Id : 77951810278 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The R.M.S. speed of oxygen molecules at 27°C is v. At 927°C, the rms speed will be:

Options :

1. ✖ v

2. ✖ v/2

3. ✔ 2v

4. ✖ 4v

Question Number : 73 Question Id : 77951810279 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In a photoelectric experiment, the stopping potential for incident light of wavelength 4000 Å is 2 V.

If the wavelength is changed to 3000 Å, the new stopping potential will be approximately:

(Use $h = 4.14 \times 10^{-15}$ eV · s, $c = 3 \times 10^{8}$ m/s)

Options :

1. ✖ 2 V

2. ✔ 3.03 V

3. ✖ 4.14 V

4. ✖ 1.5 V

Question Number : 74 Question Id : 77951810280 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In Optical Fiber communication, the signal is transmitted in the form of:

Options :

1. ✖ Electrical pulses

2. ✔ Light pulses

3. ✖ Radio waves

4. ✖ Sound waves

Question Number : 75 Question Id : 77951810281 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In a superconducting ring, a persistent current has been flowing without decay for years. This is possible because:

Options :

1. ✔ Resistance is exactly zero and flux is quantized

2. ✖ Resistance is very small but finite

3. ✖ The ring is at absolute zero temperature

4. ✖ Magnetic field lines are expelled

Chemistry

Section Id :	779518204
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 :	779518216
Question Shuffling Allowed :	Yes

Question Number : 76 Question Id : 77951810282 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The pair of orbitals with electron density maximum along the axes is

Options :

1. ✖ d_{xy}, d_{yz}

2. ✔ d_{z^2} , $d_{x^2-y^2}$

3. ✖ d_{xz}, d_{z^2}

4. ✖

d_{xz}, P_z

Question Number : 77 Question Id : 77951810283 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The angular momentum of an electron in an orbit $\underline{X}$ of hydrogen atom is $^{2h}/_{\pi}$.

Maximum number of orbitals possible in X is

Options :

1. ✖ 4

2. ✖ 9

3. ✔ 16

4. ✖ 25

Question Number : 78 Question Id : 77951810284 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The four quantum numbers for the electron in the outermost orbital of potassium (Z=19) are

Options :

1. ✖ n=4, l=2, m= -1, s= +1/2

2. ✔ n=4, l=0, m=0, s= +1/2

3. ✖ n=3, l=0, m=1, s= + 1/2

4. ✖ n=4, l=3, m= -2, s=-1/2

Question Number : 79 Question Id : 77951810285 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In which of the following, the number of bonding electrons and non-bonding electrons are in 3:2 ratio?

Options :

1. ✔ N_2

2. ✖ O_2

3. ✖ HCl

4. ✖ F_2

Question Number : 80 Question Id : 77951810286 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which one of the following statements is not correct?

Options :

1. ✖ Ionic bond is non directional bond

2. ✖ The maximum number of bond pairs between two atoms is 3

3. ✔ Covalent compounds conduct electricity in fused state

4. ✖ Ionic compounds are generally soluble in water

Question Number : 81 Question Id : 77951810287 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

12.6 g of oxalic acid, $H_2C_2O_4.2H_2O$ (M.wt 126) is present in 1500 mL of solution. The normality of that solution is

Options :

1. ✖ 0.266 N

2. ✔ 0.133 N

3. ✖ 0.399 N

4. ✖ 0.430 N

Question Number : 82 Question Id : 77951810288 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following has highest equivalent weight?
(Given: At.wt H=1, C=12, O=16, S=32, Na=23, Ca=40)

Options :

1. ✖ Sulphuric acid

2. ✖ Sodium carbonate

3. ✔ Sodium sulphate

4. ✖ Calcium carbonate

Question Number : 83 Question Id : 77951810289 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Identify the pair of gases which have same number of molecules at S.T.P ?

Options :

1. ✖ 11 g of CO_2 and 14 g of N_2

2. ✖ 16 g of O_3 and 16 g of CH_4

3. ✔ 5 g of H_2 and 40 g of CH_4

4. ✖ 28 g of N_2 and 22 g of CO_2

Question Number : 84 Question Id : 77951810290 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

100 mL of 0.1M HCl and 100 mL of 0.05 M H_2SO_4 are mixed and the solution is diluted to 2.0 L by adding water. The pH of the resulting solution is

Options :

1. ✖ 1

2. ✖ 3

3. ✔ 2

4. ✖ 4

Question Number : 85 Question Id : 77951810291 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

According to Arrhenius theory of acids and bases, which of the following is an example of Arrhenius base?

Options :

1. ✖ H_2SO_4

2. ✖ NH_3

3. ✔ NaOH

4. ✖ CaO

Question Number : 86 Question Id : 77951810292 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Electrolysis of an aqueous solution of Na_2SO_4 between Pt electrodes liberate a gas $\underline{X}$ at anode and gas $\underline{Y}$ at cathode. X and Y respectively are

Options :

1. ✖ H_2, O_2

2. ✔ O_2, H_2

3. ✖ SO_2, H_2

4. ✖ H_2, SO_2

Question Number : 87 Question Id : 77951810293 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The wrong statement regarding Galvanic cell is

Options :

1. ✖ In this spontaneous redox reaction occurs

2. ✖ Salt bridge maintains electrical neutrality between the two solutions

3. ✔ Anode is represented by (+) and cathode by (-)

4. ✖ At anode oxidation occurs

Question Number : 88 Question Id : 77951810294 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following is a weak electrolyte?

Options :

1. ✔ H_2CO_3

2. ✖ H_2SO_4

3. ✖ NaCl

4. ✖ NaOH

Question Number : 89 Question Id : 77951810295 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The exhausted anion-exchange resin is regenerated with

Options :

1. ✔ dilute NaOH solution

2. ✖ dilute NaCl solution

3. ✖ dilute HCl solution

4. ✖ dilute Na_2SO_4 solution

Question Number : 90 Question Id : 77951810296 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A sample of water is known to contain Mg $(HCO_3)_2$ =7.3 mg/L, Ca $(HCO_3)_2$= 8.1 mg/L and 27.2 mg/L of $CaSO_4$.

The total hardness associated with water sample (in ppm) in equivalents of $CaCO_3$ is

(At.wt H=1, C=12, O=16, Mg = 24, Ca=40, S=32)

Options :

1. ✖ 20

2. ✖

3. ✔ 30

4. ✖ 40

Question Number : 91 Question Id : 77951810297 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The type of functional group associated with cation exchange resin is

Options :

1. ✖ - OH

2. ✔ - SO_3H

3. ✖ - NH_2

4. ✖ - CHO

Question Number : 92 Question Id : 77951810298 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Identify the incorrect statement about the corrosion

Options :

1. ✖ In the composition type of galvanic cell, metal with lower standard reduction potential undergoes corrosion

2. ✖ In stress cell type of galvanic cell, corrosion occurs at the stressed area of the metal

3. ✔ The rate of corrosion is more, when the area of cathode is smaller

4. ✖ In concentration cell type of galvanic cell, the metal below the water level undergoes corrosion readily

Question Number : 93 Question Id : 77951810299 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In galvanised iron

Options :

1. ✔ Zn acts as anode and Fe acts as cathode

2. ✖ Zn acts as cathode and Fe acts as anode

3. ✖ Sn acts as anode and Fe acts as cathode

4. ✖ Sn acts as cathode and Fe acts as anode

Question Number : 94 Question Id : 77951810300 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

During Vulcanization of raw rubber, the chemical added to it is

Options :

1. ✔ Sulphur

2. ✖ Phosphorus

3. ✖ Iodine

4. ✖ Sodium

Question Number : 95 Question Id : 77951810301 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following is a natural polymer?

Options :

1. ✔ Cellulose

2. ✖ Teflon

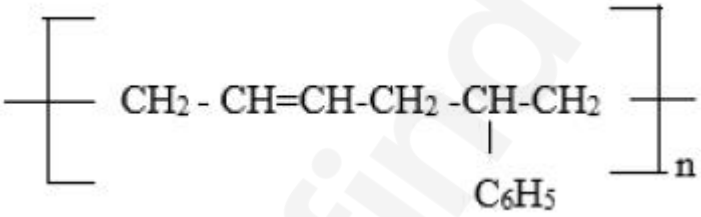
3. ✖ Polyvinylchloride

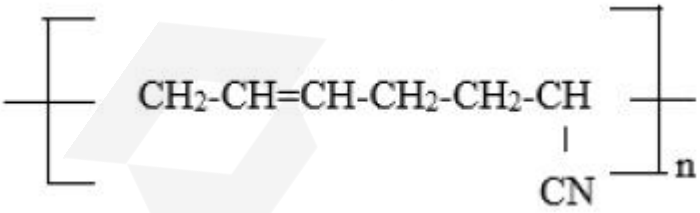
4. ✖ Neoprene rubber

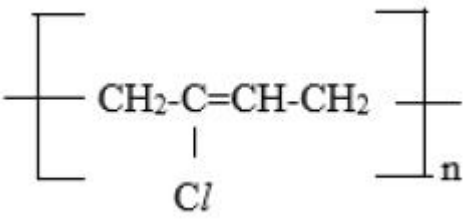
Question Number : 96 Question Id : 77951810302 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

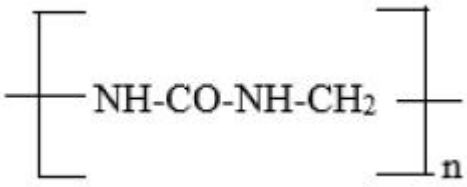
The structure of Buna –S polymer is

Options :

1. ✔ 

2. ✖ 

3. ✖ 

4. ✖ 

Question Number : 97 Question Id : 77951810303 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The polymer used in making gaskets and nono-stick coating utensils is

Options :

1. ✖ Polyvinyl chloride

2. ✖ Polystyrene

3. ✔ Polytetrafluoroethylene

4. ✖ Polythene

Question Number : 98 Question Id : 77951810304 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following in not to be considered as a primary fuel ?

Options :

1. ✖ Wood

2. ✖ Petroleum

3. ✔ Coke

4. ✖ Coal

Question Number : 99 Question Id : 77951810305 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The oxide of nitrogen responsible for depletion of ozone layer is

Options :

1. ✖ N_2O

2. ✖ NO_2

3. ✔ NO

4. ✖ N_2O_3

Question Number : 100 Question Id : 77951810306 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The BOD of highly polluted water is

Options :

1. ✔ 17 ppm

2. ✖ 10 ppm

3. ✖ 8 ppm

4. ✖ 12 ppm

Agricultural Engineering

Section Id : 779518205
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 :	779518217
Question Shuffling Allowed :	Yes

Question Number : 101 Question Id : 77951810307 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Rubber roll Sheller can shell up to _____ percentage of paddy fed to it

Options :

1. ✔ 90-95

2. ✖ 80-85

3. ✖ 70-75

4. ✖ 60-65

Question Number : 102 Question Id : 77951810308 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The equipment used for separation of broken rice from head rice is

Options :

1. ✖ Polisher

2. ✖ Separator

3. ✔ Grader

4. ✖ Rubber roller sheller

Question Number : 103 Question Id : 77951810309 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The efficiency of a cyclone separator increases by

Options :

1. ✔ Increasing the air inlet velocity

2. ✖ Decreasing the air inlet velocity

3. ✖ Reducing the size of the separator

4. ✖ Reducing the air outlet diameter

Question Number : 104 Question Id : 77951810310 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Char-coal is made through process

Options :

1. ✖ Anaerobic Digestion

2. ✔ Pyrolysis

3. ✖ Briquetting

4. ✖ Galvanization

Question Number : 105 Question Id : 77951810311 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Moisture content of grain is 22%on wet basis, what will be its value in dry basis

Options :

1. ✖ 48.2%

2. ✖ 38.3%

3. ✔ 28.2%

4. ✖ 18.2%

Question Number : 106 Question Id : 77951810312 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Olpad thresher is used for

Options :

1. ✖ Paddy

2. ✔ Wheat

3. ✖ Gram

4. ✖ Caster

Question Number : 107 Question Id : 77951810313 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The number of holes per square inch in a 20 mesh screen will be

Options :

1. ✖ 200

2. ✔ 400

3. ✖ 600

4. ✖ 800

Question Number : 108 Question Id : 77951810314 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The dryer commonly used for drying of parboiled paddy is

Options :

1. ✔ LSU dryer

2. ✖ Sack dryer

3. ✖ Vacuum dryer

4. ✖ Bin dryer

Question Number : 109 Question Id : 77951810315 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The size reduction mill where the grains are rubbed between the grooved flat faces of rotating circular disks is

Options :

1. ✖ Colloid mill

2. ✖ Ball mill

3. ✖ Hammer mill

4. ✔ Attrition mill

Question Number : 110 Question Id : 77951810316 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The peripheral surface speed of faster roll in rubber-roll sheller is

Options :

1. ✖ 15-20% more

2. ✔ 25-30% more

3. ✖ 35-40% more

4. ✖ Equal

Question Number : 111 Question Id : 77951810317 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The link, in which the motion is transmitted with the help of fluid pressure, is called the fluid link, Example for fluid link is

Options :

1. ✖ Piston

2. ✔ Hydraulic brake

3. ✖ Crank shaft

4. ✖ Rope drive

Question Number : 112 Question Id : 77951810318 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A pair of medium size bullock can develop power range of

Options :

1. ✔ 0.5-1.0 hp

2. ✖ 1.5- 2.0 hp

3. ✖ 2.5- 3.0 hp

4. ✖ 3.5 -4.0 hp

Question Number : 113 Question Id : 77951810319 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The capacity of a hand operated groundnut decorticator is

Options :

1. ✖ 1000 to 1600 kg/h

2. ✖ 100 to 360 kg/h

3. ✔ 40 to 60 kg/h

4. ✖ 4 to 6 kg/h

Question Number : 114 Question Id : 77951810320 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Parboiling process of paddy consist of three important major processes

Options :

1. ✔ Soaking-steaming-drying

2. ✖ Conditioning-pitting-dehusking

3. ✖ Drying-steaming-milling

4. ✖ Drying-storing-milling

Question Number : 115 Question Id : 77951810321 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

What is the primary principle behind the operation of a rubber roll sheller?

Options :

1. ✖ Impact

2. ✔ Friction and Shearing

3. ✖ Compression

4. ✖ Abrasion

Question Number : 116 Question Id : 77951810322 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Pneumatic separator separates grains based on their

Options :

1. ✖ Length

2. ✖ Width

3. ✔ Aerodynamic properties

4. ✖ Shape

Question Number : 117 Question Id : 77951810323 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In biogas plant, digestion occurs in the absence of

Options :

1. ✖ Carbon dioxide

2. ✔ Oxygen

3. ✖ Methane

4. ✖ Hydrogen

Question Number : 118 Question Id : 77951810324 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Gasification of biomass is _____ conversion process

Options :

1. ✔ Thermo chemical

2. ✖ Bio-chemical

3. ✖ Anaerobic

4. ✖ Chemical

Question Number : 119 Question Id : 77951810325 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The industrial process of compressing loose, low-density materials such as agricultural waste is known as

Options :

1. ✖ Gasification

2. ✔ Briquetting

3. ✖ Extrusion

4. ✖ Pelleting

Question Number : 120 Question Id : 77951810326 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The biogas production starts falling very steeply when the temperature is below

Options :

1. ✖ 35°C

2. ✖ 30°C

3. ✖ 25°C

4. ✔ 20°C

Question Number : 121 Question Id : 77951810327 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The instrument which measures total or global radiation over a hemispherical field of view is

Options :

1. ✔ Pyranometer

2. ✖ Pyrheliometer

3. ✖ Solarimeter

4. ✖ Sunshine recorder

Question Number : 122 Question Id : 77951810328 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In solar energy converting photovoltaic cells are made up of

Options :

1. ✖ Gun metal

2. ✔ Silicon

3. ✖ Magnesium

4. ✖ manganese

Question Number : 123 Question Id : 77951810329 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The lowest temperature at which a liquid generates enough vapor to form an ignitable mixture in the air is known as

Options :

1. ✖ Pour point

2. ✖ Pen point

3. ✔ Flash point

4. ✖ Aniline point

Question Number : 124 Question Id : 77951810330 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Ethanol preferred as fuel due to its cetane number is

Options :

1. ✔ 8

2. ✖ 18

3. ✖ 28

4. ✖ 38

Question Number : 125 Question Id : 77951810331 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The proportion of wet cow dung and water in slurry feed to the digester is

Options :

1. ✖ 4:1

2. ✖ 3:1

3. ✖ 2:1

4. ✔ 1:1

Question Number : 126 Question Id : 77951810332 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The amount of energy received in unit time on unit area perpendicular to the direction of radiation is called

Options :

1. ✖ Solar radiation

2. ✖ Diffused radiation

3. ✔ Solar constant

4. ✖ Heat constant

Question Number : 127 Question Id : 77951810333 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The windmill has good power coefficient, high starting torque and low cost is

Options :

1. ✖ Multi-blade

2. ✖ Sail-type

3. ✔ Savonius-type

4. ✖ Darrieus type

Question Number : 128 Question Id : 77951810334 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Maximum efficiency is obtained in ____solar collector

Options :

1. ✖ Flat plate collector

2. ✔ Paraboloid dish collector

3. ✖ Evacuated tube collector

4. ✖ Solar cooker

Question Number : 129 Question Id : 77951810335 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Kilo watt-hour(kWh) is the unit of

Options :

1. ✖ Resistance

2. ✖ Power

3. ✔ Energy

4. ✖ Ampere

Question Number : 130 Question Id : 77951810336 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Fan-and Pad cooling system today it is commonly made of a ----

Options :

1. ✖ Paper

2. ✖ Grass

3. ✔ Cross fluted cellulose

4. ✖ Wood

Question Number : 131 Question Id : 77951810337 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In a semiconductor, conductivity can be increased by

Options :

1. ✖ Cooling it to a very low temperature

2. ✖ Applying a strong magnetic field

3. ✔ Doping with impurities

4. ✖ Removing free electrons

Question Number : 132 Question Id : 77951810338 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The device used for stepping up low voltage of primary current to high voltage current in petrol engine is

Options :

1. ✖ Condenser

2. ✖ Distributor

3. ✖ Dynamo

4. ✔ Ignition coil

Question Number : 133 Question Id : 77951810339 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A compact hand instrument used in setting out right angles with greater accuracy is known as

Options :

1. ✖ Ranging rod

2. ✔ Optical square

3. ✖ Stadia

4. ✖ Compass

Question Number : 134 Question Id : 77951810340 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

To determine the elevation difference between two points far apart (e.g., across a river) and is impossible to set up the instrument in between _____ leveling is used

Options :

1. ✔ Reciprocal leveling

2. ✖

Longitudinal leveling

3. ✗ Fly levelling

4. ✗ Differential levelling

Question Number : 135 Question Id : 77951810341 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Establishment of intermediate points in between main stations for accurate straight line measurement in chain survey is known as

Options :

1. ✗ Surveying

2. ✓ Ranging

3. ✗ Levelling

4. ✗ Off-setting

Question Number : 136 Question Id : 77951810342 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Least count of Theodolite is

Options :

1. ✓ 0.33 minutes

2. ✗ 3.33 minutes

3. ✗ 33.3 minutes

4. ✗ 333 minutes

Question Number : 137 Question Id : 77951810343 Question Type : MCQ

Correct Marks : 1 Wrong Marks : 0

The property of moulding sand which enable to allow the escape of the gases from the mould is

Options :

1. ✔ Permeability

2. ✖ Flowability

3. ✖ Collapsability

4. ✖ Infiltration

Question Number : 138 Question Id : 77951810344 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The head quarter of Central soil and water Conservation Research and Training Institute is situated at _____

Options :

1. ✖ Ooty

2. ✖ Bhopal

3. ✔ Dehradun

4. ✖ Nagpur

Question Number : 139 Question Id : 77951810345 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The total depth of water needed for a crop during its base period is known as

Options :

1. ✖ Rain fall intensity

2. ✖ Run off

3. ✖ Duty

4. ✔ Delta

Question Number : 140 Question Id : 77951810346 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Drop spillway is adopted up to _____ fall of water

Options :

1. ✖ 1.0 m

2. ✖ 2.0 m

3. ✔ 3.0 m

4. ✖ 4.0 m

Question Number : 141 Question Id : 77951810347 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The removal of a fairly uniform layer of soil from the land surface by the action of rainfall and runoff is known as

Options :

1. ✔ Sheet erosion

2. ✖ Splash erosion

3. ✖ coastal erosion

4. ✖ Geological erosion

Question Number : 142 Question Id : 77951810348 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Revised universal soil loss equation (RUSLE) has been developed for allowing more detail consideration of _____

Options :

1. ✖ Rainfall intensity & runoff

2. ✔ Plant cover & management

3. ✖ Temperature & evaporation

4. ✖ Slope & topography

Question Number : 143 Question Id : 77951810349 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The velocity of water in a stream or river can be measured by

Options :

1. ✖ Water meter

2. ✔ Current meter

3. ✖ Animo meter

4. ✖ Volt meter

Question Number : 144 Question Id : 77951810350 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Land leveling is not essential for_____irrigation method

Options :

1. ✖ Flood irrigation

2. ✖

Furrow irrigation

3. ✖ Border irrigation

4. ✔ Sprinkler irrigation

Question Number : 145 Question Id : 77951810351 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The discharge of emitter usually ranges from ----- liters per hour

Options :

1. ✖ 0.5-1.0

2. ✔ 2.0-19.0

3. ✖ 20.0-40.0

4. ✖ >50.0

Question Number : 146 Question Id : 77951810352 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The vertical distance between the water surface at the source and at the outlet in a pumping system is

Options :

1. ✖ Static suction Head

2. ✖ Static discharge head

3. ✖ Static velocity head

4. ✔ Total static head

Question Number : 147 Question Id : 77951810353 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

A plough which can enter up to 60-90 cm without disturbing top soil and also useful in moisture conservation in rain-fed areas is

Options :

1. ✖ Harrow plough

2. ✖ Rotovator

3. ✔ Sub-soiler

4. ✖ Rotary plough

Question Number : 148 Question Id : 77951810354 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In sprayer _____ is used to avoid pulsation of pump

Options :

1. ✖ Lance

2. ✖ Nozzle

3. ✖ Hose

4. ✔ Air chamber

Question Number : 149 Question Id : 77951810355 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The tillage system in which, a crop is planted directly into a untilled seedbed after harvesting of the previous crop is known as

Options :

1. ✖ Minimum tillage

2. ✔ Zero tillage

3. ✖ Mulch tillage

4. ✖ Deep tillage

Question Number : 150 Question Id : 77951810356 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Rolling plough bottom exists in the following

Options :

1. ✖ Chisel plough

2. ✖ Mould board plough

3. ✔ Disc plough

4. ✖ Cultivator

Question Number : 151 Question Id : 77951810357 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The component designed to take side thrust from soil in M B plough is

Options :

1. ✔ Landside

2. ✖ Frog

3. ✖ Board

4. ✖ Tail piece

Question Number : 152 Question Id : 77951810358 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The functions of tractor mounted ridger type sugarcane cutter planter are

Options :

1. ✖ Formation of furrows and Cutting the sugarcane setts

2. ✖ Cutting the sugarcane setts and planting the setts

3. ✖ planting the setts and application of granular fertilizer in the furrows

4. ✔ Formation of furrows, cutting setts, planting setts and dropping of fertilizer

Question Number : 153 Question Id : 77951810359 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The commonly used hydraulic sprayers operating pressure is

Options :

1. ✖ 0-1 kg/cm^2

2. ✔ 1-7 kg/cm^2

3. ✖ 8-21 kg/cm^2

4. ✖ More than 21 kg/cm^2

Question Number : 154 Question Id : 77951810360 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which of the following is air assisted sprayer

Options :

1. ✔ Mist blower

2. ✖ Plunger type

3. ✖ Knapsack sprayer

4. ✖ Power operated

Question Number : 155 Question Id : 77951810361 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The component provided at the cutter end of the mower which causes the cut plants to fall towards the cut material is

Options :

1. ✖ Ledger plate

2. ✖ Shoe

3. ✖ Knife back

4. ✔ Grass board

Question Number : 156 Question Id : 77951810362 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The minimum thickness of the blade in chaff cutter is

Options :

1. ✖ 1.4 mm

2. ✔ 2.4 mm

3. ✖ 3.4 mm

4. ✖ 4.4 mm

Question Number : 157 Question Id : 77951810363 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The common firing order of a 4-stroke, 6 cylinder diesel engine is

Options :

1. ✖ 1-2-3-4-5-6

2. ✖ 6-5-4-3-2-1

3. ✔ 1-5-3-6-2-4

4. ✖ 2-1-4-3-5-6

Question Number : 158 Question Id : 77951810364 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The mechanical efficiency of an engine is expressed as

Options :

1. ✔ BHP/IHP $\times 100$

2. ✖ IHP/BHP $\times 100$

3. ✖ IHP – BHP/IHP $\times 100$

4. ✖ BHP-IHP/BHP $\times 100$

Question Number : 159 Question Id : 77951810365 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The shaft which raises and lowers the inlet and exhaust valves at proper time is

Options :

1. ✖ Connecting rod

2. ✖ Crankshaft

3. ✔ Camshaft

4. ✖ Timing gear

Question Number : 160 Question Id : 77951810366 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The process of removal of burnt or exhaust gas from the engine cylinder is known as

Options :

1. ✖ Cleaning

2. ✖ Suction

3. ✖ Inflation

4. ✔ Scavenging

Question Number : 161 Question Id : 77951810367 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Which one of the following plough is used for two way ploughing

Options :

1. ✖ MB plough

2. ✖ Chisel plough

3. ✔ Turn wrest plough

4. ✖ Cultivator

Question Number : 162 Question Id : 77951810368 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Depreciation per hour of Rs 8,00,000/ tractor working 1000 hours per year for 10 years is

Options :

1. ✖ Rs.36

2. ✔ Rs.72

3. ✖ Rs. 144

4. ✖ Rs. 288

Question Number : 163 Question Id : 77951810369 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Row to Row spacing maintained in riding type 6 or 8 row rice transplanter is

Options :

1. ✖ 10 cm

2. ✖ 20 cm

3. ✔ 30 cm

4. ✖

40 cm

Question Number : 164 Question Id : 77951810370 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Alignment and registration exists in the following equipment

Options :

1. ✖ Digger

2. ✖ Auger

3. ✖ Baler

4. ✔ Reaper

Question Number : 165 Question Id : 77951810371 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In seed drill, the area is covered by one revolution is $10m^2$, seed drop in one revolution is 40 grams, then what is the seed rate

Options :

1. ✔ 40 kg/ha

2. ✖ 30 kg/ha

3. ✖ 20 kg/ha

4. ✖ 10 kg/ha

Question Number : 166 Question Id : 77951810372 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

If soil resistance is 0.6 Kg/cm^2 and width of plough is 120cm, depth 10cm then draft is

Options :

1. ✖ 72 kg

2. ✔ 720kg

3. ✖ 1420kg

4. ✖ 7200kg

Question Number : 167 Question Id : 77951810373 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In _____ planting both row to row and plant to plant distances are same

Options :

1. ✔ Check row planting

2. ✖ Twin row planting

3. ✖ Off set planting

4. ✖ Nursery planting

Question Number : 168 Question Id : 77951810374 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The angle between centre line of king-pin of tractor and vertical line is called

Options :

1. ✖ Camber angle

2. ✖

Toe-in angle

3. ✖ Tilt angle

4. ✔ Caster angle

Question Number : 169 Question Id : 77951810375 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Perpendicular distance between point of share and lower portion of beam is known as

Options :

1. ✖ Side clearance

2. ✖ Vertical clearance

3. ✖ Horizontal clearance

4. ✔ Throat clearance

Question Number : 170 Question Id : 77951810376 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Thermodynamic cycle on which the petrol engine works is

Options :

1. ✖ Joule cycle

2. ✔ Otto cycle

3. ✖ Rankine cycle

4. ✖ Stirling cycle

Question Number : 171 Question Id : 77951810377 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Why the inflation pressure of rear wheels of tractor is less than the front wheels ?

Options :

1. ✖ To increase speed

2. ✔ To improve traction

3. ✖ To reduce friction

4. ✖ To increase life

Question Number : 172 Question Id : 77951810378 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The ratio of the wheel or track in the direction of travel for a given distance under load and at no load condition is known as

Options :

1. ✖ Rolling resistance

2. ✖ Rim pull

3. ✔ Wheel slip

4. ✖ Tractive efficiency

Question Number : 173 Question Id : 77951810379 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The lubrication oil pressure in the hydraulic system of a tractor is developed by _____ pump

Options :

1. ✖ Centrifugal pump

2. ✖ Vane pump

3. ✖ Turbine pump

4. ✔ Gear pump

Question Number : 174 Question Id : 77951810380 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In rice field preparation to form semi impervious layer & reduce infiltration losses _____ implement is used

Options :

1. ✖ Cage wheels

2. ✔ Puddler

3. ✖ Sub soiler

4. ✖ Cultivator

Question Number : 175 Question Id : 77951810381 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Contour bunding is used _____

Options :

1. ✖ To store water in desert areas

2. ✔ To reduce erosion in hilly areas

3. ✖ To stop winds in hilly areas

4. ✖ To increase water velocity

Question Number : 176 Question Id : 77951810382 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Bench terraces are used by dividing slope land into

Options :

1. ✖ Continuous surface

2. ✖ Water retaining wells

3. ✖ Rain fall collecting pit

4. ✔ Series of flat pieces

Question Number : 177 Question Id : 77951810383 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The weir, which commonly used to measure minimum discharges in open channels

Options :

1. ✖ Cipolletti weir

2. ✖ Surface weir

3. ✖ Rectangular weir

4. ✔ V-notch or triangular weir

Question Number : 178 Question Id : 77951810384 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Piezometer is used to measure

Options :

1. ✖ Dynamic pressure of a flowing fluid

2. ✖ Total pressure of a flowing fluid

3. ✔ Static pressure of a flowing fluid

4. ✖ Surface tension of a flowing fluid

Question Number : 179 Question Id : 77951810385 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The permanent irrigation channels should not usually have side slopes steeper than

Options :

1. ✖ ½ to 1

2. ✔ 1 ½ to 1

3. ✖ 2 to 1

4. ✖ 3 to 1

Question Number : 180 Question Id : 77951810386 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

It is provided as a safety measure against overtopping of channels due to wave action or other unforeseen reasons is

Options :

1. ✔ Free board

2. ✖ Hydraulic slope

3. ✖ Hydraulic radius

4. ✖ Wetted perimeter

Question Number : 181 Question Id : 77951810387 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In an ideal thermodynamic cycle for compression-ignition (engines) heat is added at

Options :

1. ✔ Constant Pressure

2. ✖ Constant Volume

3. ✖ Constant Cooling

4. ✖ Constant Temperature

Question Number : 182 Question Id : 77951810388 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The equipment used to establish in-situ drainage in the fields

Options :

1. ✖ Cultivator

2. ✖ Sub-soiler

3. ✖ MB plough

4. ✔

Mole plough

Question Number : 183 Question Id : 77951810389 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The tooth spacing in a saw is called

Options :

1. ✖ Saw width

2. ✖ Pitch

3. ✖ Tooth back

4. ✔ Tooth gullet

Question Number : 184 Question Id : 77951810390 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Plantation of high water consuming trees for withdrawal of groundwater is termed as

Options :

1. ✖ Surface drainage

2. ✖ Sub- Surface drainage

3. ✔ Bio-drainage

4. ✖ Vertical drainage

Question Number : 185 Question Id : 77951810391 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The ratio of stress to strain for any given material is called

Options :

1. ✖ Yield point

2. ✔ Modulus of elasticity

3. ✖ Elasticity

4. ✖ Resistivity

Question Number : 186 Question Id : 77951810392 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The rod staff level reading taken on a point of known elevation is called

Options :

1. ✖ Plane sight

2. ✖ Fore sight

3. ✔ Back sight

4. ✖ Short sight

Question Number : 187 Question Id : 77951810393 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Lysimeter is used to measure

Options :

1. ✔ Evapotranspiration

2. ✖ Inflitration

3. ✖ Vapour pressure

4. ✖ Evoporation

Question Number : 188 Question Id : 77951810394 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Zeroth law of thermodynamics is concerned with

Options :

1. ✖ Thermal conductivity

2. ✖ Thermal diffusivity

3. ✖ Thermal resistivity

4. ✔ Thermal equilibrium

Question Number : 189 Question Id : 77951810395 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Zinc-coated iron sheet is known as

Options :

1. ✖ Black Iron sheet

2. ✖ Tin Plate sheet

3. ✔ Galvanised Iron sheet

4. ✖ Stainless steel

Question Number : 190 Question Id : 77951810396 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The perpendicular distance between the lines of action of the two equal and opposite parallel forces, is known as

Options :

1. ✖ Magnitude of couple

2. ✖ Moment of a couple

3. ✔ Arm of the couple

4. ✖ Clockwise couple

Question Number : 191 Question Id : 77951810397 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The percentage of carbon dioxide in the atmosphere is _____ ppm

Options :

1. ✖ 345

2. ✔ 435

3. ✖ 534

4. ✖ 543

Question Number : 192 Question Id : 77951810398 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The unit of a lathe which houses the lathe spindle and control levers for speed selection is called a

Options :

1. ✖ Carriage

2. ✔ Head Stock

3. ✖ Tail Stock

4. ✖ Feed box

Question Number : 193 Question Id : 77951810399 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In the method of surveying the field work and plotting are done simultaneously is called

Options :

1. ✖ Drawing survey

2. ✖ Chain survey

3. ✖ Compass survey

4. ✔ Plane table survey

Question Number : 194 Question Id : 77951810400 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The longest of the chain lines used in making survey is generally called as

Options :

1. ✖ Check line

2. ✔ Base line

3. ✖ Main line

4. ✖

Tie line

Question Number : 195 Question Id : 77951810401 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The length of revenue chain is

Options :

1. ✖ 100ft

2. ✖ 90ft

3. ✖ 66ft

4. ✔ 33ft

Question Number : 196 Question Id : 77951810402 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

The device used to hold round material of small diameter such as wire and pins is

Options :

1. ✖ Leg vice

2. ✖ Hand vice

3. ✔ Pin vice

4. ✖ Tool vice

Question Number : 197 Question Id : 77951810403 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

In arc welding, the arc is created between the electrode and

Options :

1. ✖ Wooden piece

2. ✔ Work piece

3. ✖ Glass piece

4. ✖ Plastic piece

Question Number : 198 Question Id : 77951810404 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

An iron or brass ring fitted at the bottom of the sickle handle to prevent it from splitting during the operation

Options :

1. ✔ Ferrule

2. ✖ Tang

3. ✖ Knife

4. ✖ Bolster

Question Number : 199 Question Id : 77951810405 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Process of cutting internal threads in a metal by using a hand tool is known as

Options :

1. ✖ Marking

2. ✔ Tapping

3. ✖ Reaming

4. ✖ Drilling

Question Number : 200 Question Id : 77951810406 Question Type : MCQ
Correct Marks : 1 Wrong Marks : 0

Process of joining permanently two pieces of sheet metal without any heat energy is known as

Options :

1. ✖ Soldering

2. ✖ Welding

3. ✔ Riveting

4. ✖ Brazing