# Computer Science Engineering\_Set2

Topic:- Mathematics\_Set2

If 
$$A+B=\begin{bmatrix} 1 & -1 \\ 3 & 0 \end{bmatrix}$$
 and  $A-B=\begin{bmatrix} 3 & 1 \\ 1 & 4 \end{bmatrix}$ , then  $AB=\begin{bmatrix} 1 & 1 \\ 1 & 4 \end{bmatrix}$ 

[Question ID = 13593]

$$\begin{bmatrix} -2 & 2 \\ 0 & -6 \end{bmatrix}$$

$$\begin{bmatrix} -2 & -2 \\ 2 & -4 \end{bmatrix}$$

$$\begin{bmatrix} -2 & -2 \\ 0 & -6 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

**Correct Answer:-**

$$\begin{bmatrix} -2 & -2 \\ 0 & -6 \end{bmatrix}$$

2) If 
$$A = \begin{bmatrix} 1 \\ 0 \\ 2 \end{bmatrix}$$
;  $B = \begin{bmatrix} 1 & -1 & 0 \\ 0 & 2 & 3 \\ 4 & 0 & -1 \end{bmatrix}$ , then  $A^T B A = \begin{bmatrix} 1 & -1 & 0 \\ 0 & 2 & 3 \\ 4 & 0 & -1 \end{bmatrix}$ 

[Question ID = 13594]

$$\begin{bmatrix} 1 & -1 & 0 \\ 0 & 1 & 0 \\ 0 & 6 & -2 \end{bmatrix}$$

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

[5]

3) 
$$\begin{vmatrix} x-y & p-q & a-b \\ y-z & q-r & b-c \\ z-x & r-p & c-a \end{vmatrix} =$$

#### [Question ID = **13595**]

- 1. 1
- 2. 2
- 3. xyz- pqr+ abc
- 4. 0

#### **Correct Answer:-**

• (

The solution of the equation 
$$\begin{vmatrix} 5-x & 4 & 3 \\ 1-3x & 7 & 6 \\ 1-x & 6 & 5 \end{vmatrix} = 0 \text{ is}$$

## [Question ID = 13596]

$$x = 1$$

$$x = 2$$

3. 
$$x = 0$$

$$x = 5$$

$$x=1$$

The inverse of the matrix  $A = \begin{bmatrix} a+ib & c+id \\ -c+id & a-ib \end{bmatrix}$ ,

if 
$$a^2 + b^2 + c^2 + d^2 = 1$$
 is

[Question ID = 13597]

$$\begin{bmatrix} a-ib & c-id \\ c+id & a+ib \end{bmatrix}$$

$$\begin{bmatrix} a-ib & -c-id \\ c-id & a+ib \end{bmatrix}$$

$$\begin{bmatrix} c - id & a - ib \\ a + ib & c + id \end{bmatrix}$$

$$\begin{bmatrix} a-ib & c-id \\ -c-id & a+ib \end{bmatrix}$$

#### **Correct Answer:-**

$$\begin{bmatrix} a-ib & -c-id \\ c-id & a+ib \end{bmatrix}$$

$$\frac{x^2}{x^2 - 3x + 2} =$$

[Question ID = 13598]

$$\frac{1}{x-1} + \frac{2}{x-2}$$

$$1 - \frac{1}{1 - x} + \frac{3}{x - 2}$$

$$1 + \frac{1}{1-x} + \frac{4}{x-2}$$

$$1 - \frac{1}{x - 1} + \frac{2}{x - 2}$$

$$1 + \frac{1}{1-x} + \frac{4}{x-2}$$

7) If 
$$Sin\theta + Cosec\theta = 2$$
, then the value of  $Sin^3\theta + Cosec^3\theta =$ 

#### [Question ID = 13599]

- 1.0
- 2. 1
- 3. 2
- 4.8

#### **Correct Answer:-**

- 2
- The value of  $Sin^2 \left( \frac{\pi}{8} + \frac{\theta}{2} \right) Sin^2 \left( \frac{\pi}{8} \frac{\theta}{2} \right) =$

# [Question ID = 13600]

$$\frac{1}{\sqrt{2}}$$

$$\frac{1}{2}\sin\theta$$

$$\frac{1}{\sqrt{2}}\sin\theta$$

$$\sin(\frac{\theta}{2})$$

$$\frac{1}{\sqrt{2}}\sin\theta$$

If x, y are in first quadrant,  $\tan(x-y) = \frac{7}{24}$  and  $\tan(x) = \frac{4}{3}$ , then x+y=

[Question ID = 13601]

$$\frac{\pi}{2}$$

$$\frac{\pi}{4}$$

**Correct Answer:-**

$$\frac{\pi}{2}$$

10) If  $A - B = \frac{3\pi}{4}$ , then  $(1 - \tan A)(1 + \tan B) =$ 

[Question ID = 13602]

**Correct Answer:-**

• 2

11) 
$$\sec^2(\tan^{-1} 3) + \cos ec^2(\cot^{-1} 3) =$$

#### [Question ID = **13603**]

- 1. 1
- 2.10
- 3. 20
- 4. 30

#### **Correct Answer:-**

• 20

12) 
$$3Co\sec x = 4Sinx \Rightarrow x =$$

### [Question ID = **13604**]

$$n\pi \pm \frac{\pi}{2}; n \in \mathbb{Z}$$

$$n\pi \pm \frac{\pi}{3}; n \in \mathbb{Z}$$

$$2n\pi\pm\frac{\pi}{2}; n\in z$$

$$n\pi \mp \frac{\pi}{4}$$
;  $n \in \mathbb{Z}$ 

#### **Correct Answer:-**

$$n\pi \pm \frac{\pi}{3}; n \in \mathbb{Z}$$

13) If 
$$x = \log_{e} \left( 5 + \sqrt{26} \right)$$
, then Sinhx =

## [Question ID = 13605]

- 1. 5
- 2. <sup>1</sup>
- 2

5

14)

If a, b and c are the lengths of the sides opposite to the angles A,B and C of a triangle ABC, then

$$(b-c)^2 Cos^2 \frac{A}{2} + (b+c)^2 Sin^2 \frac{A}{2} =$$

#### [Question ID = **13606**]

1. a

2. b

3.  $b^2$ 

4.  $a^2$ 

#### **Correct Answer:-**

a

**15)** If 
$$z = 2 - i\sqrt{7}$$
, then  $2z^2 - 8z + 22 =$ 

#### [Question ID = **13607**]

1. 0

2. 1

3. 2

4. 4

#### **Correct Answer:-**

• (

The least positive integer n, satisfying  $\left(\frac{1+i}{1-i}\right)^n = 1$  is

#### [Question ID = **13608**]

1. 2

- 2. 1
- 3. 4
- 4.8

- 4
- The distance between the parallel straight lines 3x + 4y 3 = 0 and 6x + 8y 1 = 0 is

## [Question ID = 13609]

- $\frac{1}{2}$
- 2. 4
- 3
- $\sqrt{2}$

#### **Correct Answer:-**

- $\frac{1}{2}$
- **18)** Angle between the lines 3x 5y 9 = 0; 4x y + 7 = 0 is

# [Question ID = 13610]

- $\theta = 30^{\circ}$
- $\theta = 45^{\circ}$
- 3.  $\theta = 60^{\circ}$
- 4.  $\theta = 15^{\circ}$

$$\theta = 45^{\circ}$$

19)

Equation of the circle passing through (3,-4) and concentric with  $x^2 + y^2 + 4x - 2y + 1 = 0$  is

#### [Question ID = **13611**]

$$x^2 + y^2 + 4x - 2y - 15 = 0$$

$$x^2 + y^2 + 4x - 2y - 30 = 0$$

$$x^2 + y^2 + x - 2y - 45 = 0$$

$$x^2 + y^2 + 4x - 2y - 45 = 0$$

#### **Correct Answer:-**

$$x^2 + y^2 + 4x - 2y - 45 = 0$$

# 20) The eccentricity of Ellipse $9x^2 + 16y^2 = 144$ is

# [Question ID = 13612]

$$\frac{7}{4}$$

$$\frac{\sqrt{7}}{4}$$

$$\frac{5}{4}$$

$$\frac{\sqrt{7}}{4}$$

$$\lim_{x \to 0} \frac{8^x - 2^x}{x} =$$

[Question ID = 13613]

- 1. log 2
- 2. 0
- 3. log 4
- 4. 1

**Correct Answer:-**

- log 4
- 22) If  $y = \cos^{-1}(4x^3 3x)$ , then  $\frac{dy}{dx} =$

[Question ID = 13614]

$$\frac{-3}{\sqrt{1-x^2}}$$

$$\frac{4}{\sqrt{1-x^2}}$$

$$\frac{1}{\sqrt{1+x^2}}$$

$$\frac{-4}{3\sqrt{1-x^2}}$$

$$\frac{-3}{\sqrt{1-x^2}}$$

If 
$$y = (\sin x)^{\log x}$$
, then  $\frac{dy}{dx} =$ 

[Question ID = 13615]

$$(\sin x)^{\log x} \left\{ \tan x \cdot \log x + \log(\sin x) \right\}$$

$$\log x \left\{ \cot x \cdot \sin x + \frac{1}{x} \log(\sin x) \right\}$$

$$(\sin x)^{\log x} \left\{ \cot x \cdot \log x + \frac{1}{x} \log(\sin x) \right\}$$

$$\left(\cos x\right)^{\log x} \left\{ \tan x \cdot \log x + \frac{1}{x} \log(\cos x) \right\}$$

**Correct Answer:-**

$$\left(\sin x\right)^{\log x} \left\{\cot x \cdot \log x + \frac{1}{x} \log(\sin x)\right\}$$

24) If 
$$y = \log(x + \sqrt{1 + x^2})$$
, then  $(1 + x^2)\frac{d^2y}{dx^2} + x\frac{dy}{dx} =$ 

[Question ID = 13616]

- 1.
- 2. 0
- 3 X

$$\int_{4}^{1} \frac{1}{\sqrt{1+x^2}}$$

**Correct Answer:-**

0

At  $\theta = \frac{\pi}{4}$ , the slope of the normal to the curve  $x = a \cos^3 \theta$ ;  $y = a \sin^3 \theta$  is

[Question ID = **13617**]

1. -1

2. -2

3. 2

4. 1

**Correct Answer:-**

•

If  $x^y = e^{x-y}$ , then  $\frac{dy}{dx} =$ 

[Question ID = **13618**]

$$\int_{1}^{\log x} \frac{\log x}{(1+\log x)^2}$$

$$\frac{1}{(1+\log x)^2}$$

$$\int_{3.}^{\log x} \frac{\log x}{1 + \log x}$$

$$\frac{(\log x)^2}{(1+\log x)^2}$$

**Correct Answer:-**

$$\frac{\log x}{(1+\log x)^2}$$

Equation of the tangent to the curve  $y = 5x^4$  at the point (1,5) is

[Question ID = 13619]

$$y = 15(x-1)$$

$$y = 20x - 15$$

$$x = 15y - 20$$

$$y = 20(x-1)$$

$$y = 20x - 15$$

If 
$$u = \sin^{-1} \left( \frac{x^2 + y^2}{x + y} \right)$$
, then  $x \frac{\partial u}{\partial y} + y \frac{\partial u}{\partial y} =$ 

#### [Question ID = 13620]

- 1. cot u
- 2. tan u
- 3. 1
- 4. sin u

#### **Correct Answer:-**

• tan u

$$\int \frac{a}{h+ce^x} dx =$$

#### [Question ID = 13621]

$$\int_{1}^{a} \log \left( \frac{e^{x}}{b + ce^{x}} \right) + C$$

$$\int_{2}^{\infty} \log \left( \frac{e^{-x}}{b + e^{-x}} \right) + C$$

$$\frac{a}{b}\log\left(\frac{1}{be^x + ce^{-x}}\right) + C$$

$$\frac{b}{a}e^{(b+ce^{x})} + C$$

$$\frac{a}{b}\log\left(\frac{e^x}{b+ce^x}\right) + C$$

$$\int \frac{1}{(1+x^2)\tan^{-1}x} dx =$$

[Question ID = 13622]

- 1.  $tan^{-1}x + C$
- 2.  $\cot^{-1}x + C$
- 3. log(secx)tanx + C
- 4.  $\log (\tan^{-1}x) + C$

#### **Correct Answer:-**

•  $\log (\tan^{-1}x) + C$ 

$$\int \frac{\cos(\log x^2)}{x^4} dx =$$

[Question ID = 13623]

$$\frac{1}{x^3} \cos \left[\log x^2 + \tan^{-1}\left(\frac{3}{2}\right)\right] + C$$

1

$$\frac{x^3}{\sqrt{13}} Cos \left[ log x^2 + cot^{-1} (\frac{2}{3}) \right] + C$$

$$\int_{3}^{1} \frac{-1}{2x^3} \cos \left[ \log x^2 + \tan^{-1}(\frac{2}{3}) \right] + C$$

$$\int_{4.}^{1} \frac{1}{x^3 \sqrt{13}} \cos \left[ \log x^2 + \cot^{-1}(\frac{3}{2}) \right] + C$$

$$\frac{1}{x^3} Cos \left[ \log x^2 + \tan^{-1}(\frac{3}{2}) \right] + C$$

 $\int \frac{dx}{e^x - 1} =$ 

[Question ID = 13624]

$$\log\left(\frac{1-e^x}{e^x}\right) + C$$

 $\log(e^x - 1) + C$ 

$$\log\left(\frac{e^x-1}{e^x}\right) + C$$

$$\log\left(\frac{e^{-x}-1}{e^{-x}}\right)+C$$

**Correct Answer:-**

$$\log\left(\frac{e^x - 1}{e^x}\right) + C$$

33)  $\int \frac{\sin^3 x + \cos^3 x}{\sin^2 x \cos^2 x} dx =$ 

[Question ID = 13625]

$$\sec x + \cot x$$

$$\cos ecx - \cot x$$

$$\cos ecx + \tan x$$

$$\sec x - \cos ecx$$

 $\sec x - \cos ecx$ 

# $\int_{0}^{\pi/4} \frac{e^{\tan x}}{\cos^2 x} dx$

#### [Question ID = 13626]

- $e^{-1}$
- $e^{-1}-1$
- $e^{-1}+1$
- $e^{-2}-1$

#### **Correct Answer:-**

 $e^{-1}$ 

# 35) $\int_{0}^{\pi} \sin^{3} x (1 - \cos x)^{2} dx =$

#### [Question ID = 13627]

- 1. 5/3
- 2.8/5
- 3. 1
- 4. 0

#### **Correct Answer:-**

• 8/5

#### 36)

The volume generated by the revolution of the ellipse  $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$  about its major axis is

#### [Question ID = 13628]

$$4\pi ab^2$$

$$\frac{4}{3}\pi ab^2$$

$$\frac{4}{3}\pi a^2b$$

$$\frac{8}{3}\pi a^2b^2$$

$$\frac{4}{3}\pi ab^2$$

# The general solution of $x \frac{dy}{dx} = y[\log y - \log x + 1]$ is

## [Question ID = 13629]

$$y = Ce^{x}$$

$$y = Ce^y$$

$$y = xe^{cx}$$

$$x = Ce^{y/x}$$

#### **Correct Answer:-**

$$y = xe^{cx}$$

A and B are arbitrary constants, the differential equation having  $xy = Ae^{x} + Be^{-x} + x^{2}$  as its general solution is

# [Question ID = 13630]

$$y'' + 2xy' - xy + x^2 = 0$$

$$xy'' + y' - xy - 2 = 0$$

$$xy'' + 2y' - 2xy + 3x^2 - 2 = 0$$

$$xy'' + 2y' - xy + x^2 - 2 = 0$$

$$xy'' + 2y' - xy + x^2 - 2 = 0$$

The solution of  $\left(e^{-2\sqrt{x}} - y\right) \frac{dx}{dy} = \sqrt{x}$ 

#### [Question ID = 13631]

$$y = e^{-2\sqrt{x}} \left( 2\sqrt{x} + C \right)$$

$$y = e^{-2\sqrt{x}} + \sqrt{x} + C$$

$$y = e^{-2\sqrt{x}} + e^{\sqrt{x}} \sqrt{x} + C$$

$$y = e^{2\sqrt{x}} + \log x + C$$

#### **Correct Answer:-**

$$y = e^{-2\sqrt{x}} \left( 2\sqrt{x} + C \right)$$

**40)** The solution of Cosx dy = (Sinx - y)ydx

# [Question ID = 13632]

$$y = \sec x \tan x + C$$

$$y^{-1}Co\sec x = \cot x + C$$

$$\int_{3}^{2} y^{-1} \sec x = \tan x + C$$

$$y = \log \sin x + C$$

$$y^{-1}\sec x = \tan x + C$$

The solution of 
$$\frac{d^2y}{dx^2} + 4\frac{dy}{dx} + 5y = 0$$
 satisfying  $y(0) = 1$  and  $y'(0) = 0$  is

#### [Question ID = **13634**]

$$y = e^{-2x} \left[\cos x + 2\sin x\right]$$

$$y = e^{-x} \left[ 2\cos x + \sin x \right]$$

$$y = e^{2x} [2\cos x + 3\sin x]$$

$$y = e^x [\cos x + 2\sin x]$$

#### **Correct Answer:-**

$$y = e^{-2x} [\cos x + 2\sin x]$$

42) 
$$\frac{d^2y}{dx^2} - 5\frac{dy}{dx} + 6y = 2e^x$$
; with  $y(0) = 1$ ;  $y'(0) = 1$  satisfies

#### [Question ID = 13635]

$$y = c_1 e^{2x} + c_2 e^{3x} + e^x$$

$$y = 2e^{2x} + 3e^{3x} + e^x$$

$$y = e^{2x} + 2e^{3x} + e^{-x}$$

4. 
$$y = e^x$$

$$y = e^x$$

The solution of  $(y \log x - 2) y dx = x dy$ 

[Question ID = 13636]

$$y = x(\log x + C)$$

1

$$y = \frac{1}{x} \log x + x + C$$

$$\frac{1}{y} = x \log x + x + Cx$$

$$\frac{1}{y} = x^2 \log x + x + C$$

**Correct Answer:-**

$$\frac{1}{y} = x^2 \log x + x + C$$

44) Mean deviation about the median for the data 4,6,9,3,10,13,2 is [Question ID = 13641]

- 1. 4.31
- 2. 5.253
- 3. 3.285
- 4. 3.785

**Correct Answer:-**

- 3.285
- 45) If  $E_1$ ,  $E_2$  are any two events of a random experiment and P is a probability function then

[Question ID = 13642]

$$P(E_1 \cap E_2) = P(E_1) + P(E_2) - P(E_1 \cap E_2)$$

$$P(E_1 \cup E_2) = P(E_1) + P(E_2) - P(E_1 \cap E_2)$$

3. 
$$P(E_1 \cap E_2) = P(E_1) + P(E_2) + P(E_1 \cup E_2)$$

4. 
$$P(E_1 \cup E_2) = P(E_1) + P(E_2) - P(E_1 \cup E_2)$$

$$P(E_1 \cup E_2) = P(E_1) + P(E_2) - P(E_1 \cap E_2)$$

The solution of the initial value problem 
$$\frac{d^2x}{dt^2} - 3\frac{dx}{dt} + 2x = 0$$
;

with 
$$x(0) = 2$$
;  $x'(0) = 0$  is

#### [Question ID = 23975]

$$x(t) = Ae^t + Be^{2t}$$

$$x(t) = 2e^t - 4e^{2t}$$

$$x(t) = 4e^t - 2e^{2t}$$

$$x(t) = e^t - 2e^{2t}$$

#### **Correct Answer:-**

$$x(t) = 4e^t - 2e^{2t}$$

The Laplace transform of 
$$\left\{ \frac{e^{-at}t^{n-1}}{(n-1)!} \right\} =$$

#### [Question ID = 23976]

$$\frac{e^{-at}}{(s+a)^n}$$

$$\frac{1}{(s+a)^n}$$

$$\frac{1}{(s-a)^n}$$

$$\frac{e^{at}}{(s-a)^n}$$

$$\frac{1}{(s+a)^n}$$

The inverse Laplace transform of 
$$\left\{ \frac{1}{(8s-27)^{1/3}} \right\} =$$

## [Question ID = 23977]

$$\frac{e^{(3/2)t} t^{-2/3}}{\Gamma\left(\frac{1}{3}\right)}$$

$$\frac{e^{(8/27)t} t^{-3/2}}{2\Gamma\left(\frac{1}{3}\right)}$$

$$\frac{e^{(2/3)t}t^{-3/2}}{2\Gamma(\frac{1}{-})}$$

$$\frac{e^{(27/8)t} t^{-2/3}}{25(1)}$$

$$2\Gamma\left(\frac{1}{3}\right)$$

$$\frac{e^{(27/8)t} t^{-2/3}}{2\Gamma\left(\frac{1}{3}\right)}$$

#### 49)

If 
$$f(x) = \begin{cases} 0 & ; -\pi \le x \le 0 \\ \sin x ; & 0 \le x \le \pi \end{cases}$$
,  $f(x+2\pi) = f(x)$  and

$$f(x) = \frac{a_0}{2} + \sum_{n=1}^{\infty} (a_n \cos nx + b_n \sin nx)$$
, then  $a_0 =$ 

#### [Question ID = 23978]

- $\frac{1}{\pi}$
- ຸ 1
- 3. <sup>0</sup>
  - $\frac{2}{\pi}$

# 4. π

#### **Correct Answer:-**

 $\frac{2}{\pi}$ 

#### 50)

The inverse Laplace transform of 
$$\left\{ \frac{s+3}{s^2+6s+25} \right\} =$$

#### [Question ID = 23979]

- $e^{-3t}\cos 4t$
- $e^{3t}\sin 4t$

 $e^{3t}\cos 4t$ 

 $e^{-3t}\cos 3t$ 

#### **Correct Answer:-**

 $e^{-3t}\cos 4t$ 

Topic:- Physics\_set2

The physical quantity having the dimension [ML<sup>2</sup>T<sup>-3</sup>] is

#### [Question ID = 34198]

- 1. work
- 2. power
- 3. pressure
- 4. impulse

#### **Correct Answer:-**

- power
- 2) Force F is given by F=at +bt<sup>2</sup> where t is time. The dimensions of a and b are

# [Question ID = 34199]

- [MLT<sup>-3</sup>] and [MLT<sup>-4</sup>]
- [MLT $^{-1}$ ] and [MLT $^{0}$ ]
- 3. [MLT<sup>-3</sup>] and [MLT<sup>4</sup>]
- [MLT<sup>-4</sup>] and [MLT<sup>-1</sup>]

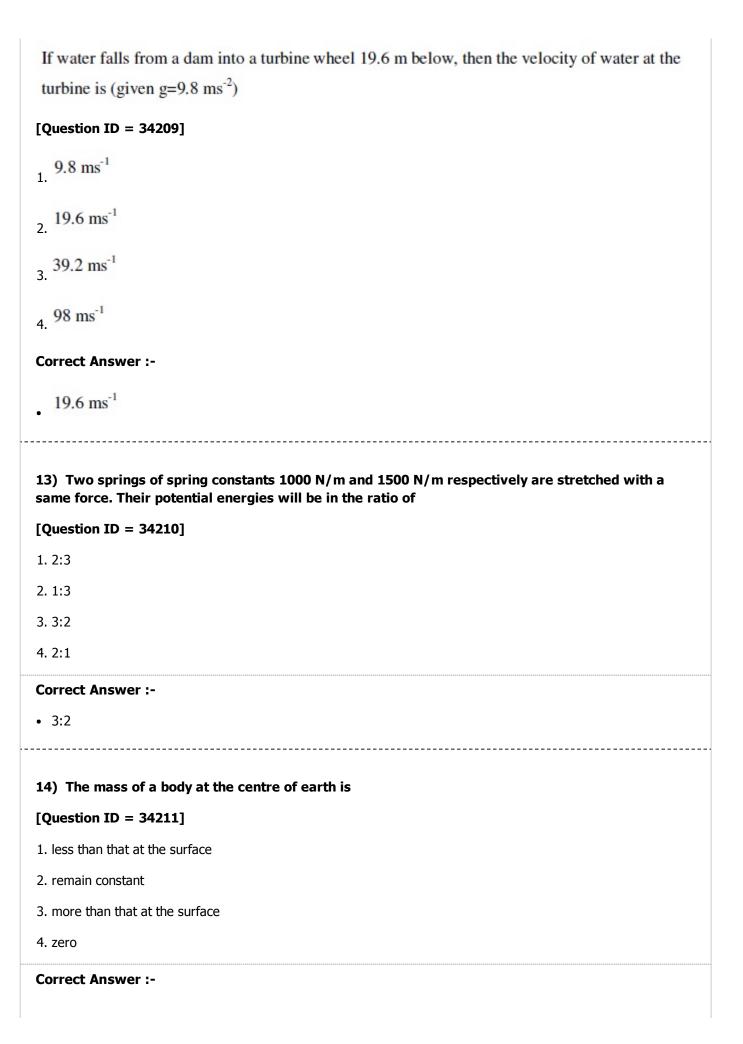
#### **Correct Answer:-**

[MLT-3] and [MLT-4]

The magnitudes of two vectors are 4 and 5 and their scalar product is 10. Then the angle between the two vectors is [Question ID = $34200$ ]
1. 30°
2. <sup>45°</sup>
60° 3.
0° 4.
Correct Answer :-
60°
4) If $\bar{a} + \bar{b} = \bar{c}$ and $\bar{a}^2 + \bar{b}^2 = \bar{c}^2$ , then the angle between the vectors $\bar{a}$ and $\bar{b}$ is
[Question ID = 34201]
1. <sup>0°</sup>
2. <sup>20°</sup>
3. <sup>45°</sup>
90° 4.
Correct Answer :-
90°
ā and $\bar{b}$ are two vectors and θ is the angle between them. If $ \bar{a} \times \bar{b}  = \sqrt{3}$ ( $\bar{a} \cdot \bar{b}$ ), the value of
$\theta$ is
[Question ID = 34202]
1. 30°
2. <sup>45°</sup>

3. 60° 90° **Correct Answer:-**30° 6) A body under action of five forces can be in equilibrium [Question ID = 34203] 1. if all forces are equal 2. sum of resolved components along x-axis is zero 3. sum of resolved components along y-axis is zero 4. sum of resolved components along x-axis and y-axis, individually zero **Correct Answer:-** sum of resolved components along x-axis and y-axis, individually zero 7) Two vibrating systems are said to be in resonance, if their [Question ID = 34204] 1. amplitudes are equal 2. temperatures are equal 3. frequencies are equal 4. phase values are equal **Correct Answer:-** frequencies are equal 8) A balloon is ascending at the rate of 9.8 ms<sup>-1</sup> at a height of 39.2 m above the ground when a food packet is dropped from the balloon. The velocity with which the food packet reach the ground is [Question ID = 34205] - 9.8 ms<sup>-1</sup> - 58.8 ms<sup>-1</sup> 3. - 4.9 ms<sup>-1</sup> - 29.4 ms<sup>-1</sup> **Correct Answer:-**

- 29.4 ms<sup>-1</sup> 9) The walls of hall built for music concerts should [Question ID = 34206] 1. amplify sound 2. reflect sound 3. transmit sound 4. absorb sound **Correct Answer:-** absorb sound 10) When a star approaches the earth , the waves are shifted towards [Question ID = 34207] 1. green colour 2. yellow colour 3. blue end 4. red end **Correct Answer:-**• blue end 11) A body of mass m is placed on a rough surface with coefficient of friction  $\mu$  inclined at  $\theta$ . If the mass is in equilibrium, then the value of  $\theta$  is [Question ID = 34208] Tan -1 µ Tan  $^{-1}(1/\mu)$ Tan -1 (m/μ) 3. Tan  $^{-1}(\mu/m)$ **Correct Answer:-**Tan -1 µ



remain constant
15) The maximum velocity of a particle executing simple harmonic motion with an amplitude 7 mm is 4.4 ms <sup>-1</sup> . The period of oscillation is  [Question ID = 34212]
1. 0.01 s 2. 0.1 s 3. 10 s 4. 100 s
Correct Answer :-  • 0.01 s
16) In a simple harmonic oscillator, at the mean position [Question ID = 34213]
<ol> <li>both kinetic energy and potential energies are minimum</li> <li>kinetic energy is maximum, potential energy is minimum</li> <li>kinetic energy is minimum, potential energy is maximum</li> <li>both kinetic energy and potential energies are maximum</li> </ol>
Correct Answer:-  • kinetic energy is maximum, potential energy is minimum
17) The intensity of sound produced by thunder is 0.1Wm <sup>-2</sup> . The intensity level in decibels is [Question ID = 34214]
1. 110 dB 2. 100 dB 3. 90 dB 4. 140 dB
Correct Answer :- • 110 dB
18) A classroom has dimensions 20 x 15 x 5 m³. The reverberation time is 3.5 s. The average absorption coefficient is
[Question ID = 34215]
1. 0.05 2. 0.09 3. 0.03 4. 0.07

Correct Answer :-	
• 0.07	
19) Which of the following is not a characteristic of musical sound? [Question ID = 34216]	
1. pitch	
2. loudness	
<ul><li>3. frequency</li><li>4. quality</li></ul>	
T. quanty	
Correct Answer :-	
• frequency	
20) In a simple harmonic motion, the particle is [Question ID = 34217]	
1. always accelerated	
2. alternately accelerated and retarded	
<ul><li>3. always retarded</li><li>4. neither accelerated nor retarded</li></ul>	
T. Helther accelerated not retained	
Correct Answer :-	
alternately accelerated and retarded	
21)	
100 g of water is heated from 30°C to 50°C. Ignoring the slight expansion of water, the cha	nge i
its internal energy is (specific heat of water is 4200 J kg-1K-1)	
[Question ID = 34218]	
[Question ID = 34218] 1. 4.2 kJ	
1. 4.2 kJ 2. 84 kJ	
1. 4.2 kJ 2. 84 kJ 3. 2.1 kJ	
1. 4.2 kJ 2. 84 kJ	
1. 4.2 kJ 2. 84 kJ 3. 2.1 kJ	
1. 4.2 kJ 2. 84 kJ 3. 2.1 kJ 4. 8.4 kJ Correct Answer:- • 8.4 kJ	
1. 4.2 kJ 2. 84 kJ 3. 2.1 kJ 4. 8.4 kJ  Correct Answer:-	
1. 4.2 kJ 2. 84 kJ 3. 2.1 kJ 4. 8.4 kJ  Correct Answer:- • 8.4 kJ	
1. 4.2 kJ 2. 84 kJ 3. 2.1 kJ 4. 8.4 kJ  Correct Answer:  8.4 kJ  22) Which of the following is correct [Question ID = 34219]	

# 4. $H_1T_1 + H_2T_2=0$

$(H_1/T_1) = (H_2/T_2)$
23) An ideal gas in a cylinder is compressed adiabatically to one-third its original volume. During the process 50J of work is done on the gas by the compressing agent. The change in the internal energy of the gas in the process is [Question ID = 34220]
1. 50 J 2. 50/3 J 3. 150 J 4. 45 J
Correct Answer :-  • 50 J
24) The maximum kinetic energy of photoelectrons ejected from a potassium surface by ultraviolet light of wavelength 200 nm is (photoelectric threshold wavelength for potassium is 440 nm) [Question ID = 34221]
1. 2.82 eV 2. 4.40 eV 3. 6.20 eV 4. 3.38 eV
Correct Answer :-  • 3.38 eV
For a light wave to undergo total internal reflection ('i <sub>c</sub> ' is critical angle, 'i' is incident angle)  [Question ID = 34222]
light moves from rarer to denser medium and $i>i_c$
light moves from denser to rarer medium and $i > i_c$
light moves from rarer to denser medium and $i < i_c$
light moves from denser to rarer medium and i $<$ i $_c$
Correct Answer :-
light moves from denser to rarer medium and $i > i_c$
Topic:- Chemistry_Set2

1) For an f-orbital, the val	ues of 'm' are [Question ID = 23999]
11, 0, +1	
23, -2, -1, 0, +1, +2, +3 3. 0, +1, +2, +3	
42, -1, 0, +1, +2	
Correct Answer :-	
• -3, -2, -1, 0, +1, +2, +3	
2) Among LiCl, BeCl <sub>2</sub> , BCl <sub>3</sub>	and CCl <sub>4</sub> , the covalent character follows the order:
[Question ID = 24000]	
1. LiCl>BeCl <sub>2</sub> >BCl <sub>3</sub> >CCl <sub>4</sub>	
2. LiCl <becl<sub>2<bcl<sub>3<ccl<sub>4</ccl<sub></bcl<sub></becl<sub>	
3. LiCl>BeCl2 <bcl3>CCl4</bcl3>	
4. LiCl <becl2<bcl3>CCl4</becl2<bcl3>	
Correct Answer :-	
<ul> <li>LiCl<becl2<bcl3<ccl4< li=""> </becl2<bcl3<ccl4<></li></ul>	
3) Lowest oxidation state	in its compound is exhibited by
3) Lowest oxidation state [Question ID = 24001]	
3) Lowest oxidation state [Question ID = 24001] 1. N	
3) Lowest oxidation state [Question ID = 24001] 1. N 2. O	
3) Lowest oxidation state [Question ID = 24001] 1. N	
3) Lowest oxidation state [Question ID = 24001]  1. N  2. O  3. C  4. F	
3) Lowest oxidation state  [Question ID = 24001]  1. N  2. O  3. C  4. F  Correct Answer :-	
3) Lowest oxidation state [Question ID = 24001]  1. N  2. O  3. C  4. F	
3) Lowest oxidation state  [Question ID = 24001]  1. N  2. O  3. C  4. F  Correct Answer:-	
3) Lowest oxidation state  [Question ID = 24001]  1. N  2. O  3. C  4. F  Correct Answer:-	in its compound is exhibited by
3) Lowest oxidation state  [Question ID = 24001]  1. N  2. O  3. C  4. F  Correct Answer:-  • F	in its compound is exhibited by
3) Lowest oxidation state  [Question ID = 24001]  1. N  2. O  3. C  4. F  Correct Answer:-  • F  4) Which of the following [Question ID = 24002]	in its compound is exhibited by
3) Lowest oxidation state  [Question ID = 24001]  1. N  2. O  3. C  4. F  Correct Answer:-  • F  4) Which of the following in the control of t	in its compound is exhibited by

	Correct Answer :-
	NH4Cl, CuSO4 and K3[Fe(CN)6]
	5) Molarity of 4% (W/V) solution of NaOH is [Question ID = 24003]
	1. 0.1
	2. 0.5 3. 0.001
	4. 1
	Correct Answer :-  • 1
	6) The weight of $H_2C_2O_4$ . $2H_2O$ required to prepare 500mL of 0.2 N solution is
	[Question ID = 24004]
	1. 1.26 g
	2. 6.3g 3. 1.575g
	4. 3.15g
	Correct Answer :-
	• 6.3g
	7) The conjugate base of hydrogen molecule is [Question ID = 24005]
	1. Electron
	Hydride ion     Proton
	4. Hydroxide ion
	Correct Answer :-
	Hydride ion
-	
	$p^H$ of a solution is 1. It is diluted by 1X $10^3$ times. The $p^H$ of the resulting solution will be
	[Question ID = 24006]
	1. 1
	2. 3
	3. 4 4. 5
	Correct Answer :-  • 4
	• 4

9) Which of the following is a basic flux
[Question ID = 24007]
$Na_2B_4O_7$
2. <b>CaO</b>
3. SiO <sub>2</sub>
4. P <sub>2</sub> O <sub>5</sub>
Correct Answer :-
• CaO
10) Roasting of a metal oxide is carried out in which of the following furnaces
[Question ID = 24008]
1. Blast furnace
2. Reverberatory furnace
3. Both reverbaratory furnace and blast furnace
4. Muffle furnace
Correct Answer :-
Reverberatory furnace
11) Three faradays of electricity was passed through an aqueous solution of Ferrous chloride. The weight of iron metal (at $Wt = 56$ ) deposited at the cathode in grams is [Question ID = 24009]
1. 56
2. 84 3. 112
4. 168
Correct Answer :-
• 84 
12) Which one of the following could not be liberated from a suitable electrolyte by the passage of 0.25 Faraday of electricity through the electrolyte
[Question ID = 24010]
1. 0.25 mole of Ag
2. 16 gms of Cu

- 3. 2gms of O<sub>2</sub> (g)
- 4. 2.8 lit of H<sub>2</sub> at STP

• 16 gms of Cu

# 13) Given standard electrode potentials

Fe<sup>3+</sup> + 3e<sup>-</sup> ----> Fe 
$$E^0$$
 = -0.036 V

Fe<sup>2+</sup> + 2e<sup>-</sup> ----> Fe 
$$E^0 = -0.440 \text{ V}$$

The standard electrode potential  $E^0$  for Fe<sup>3+</sup> + e<sup>-</sup> ----> Fe<sup>2+</sup> is

#### [Question ID = 24011]

- 1. 0.476 V
- 2. -0.404 V
- 3. 0.40 V
- 4. 0.772 V

#### **Correct Answer:-**

- 0.772 V
- 14) Water acts as an excellent solvent, due to which property among the following:

#### [Question ID = 24012]

- 1. High viscosity
- 2. High Entholpy of formation
- 3. High dielectric constant
- 4. High density

#### **Correct Answer:**

- High dielectric constant
- 15) A sample of water has  $Mg(HCO_3)_2 = 73 \text{ mg/L}$ ,  $Ca(HCO_3)_2 = 162 \text{ mg/L}$ ,  $MgCl_2 = 95 \text{ mg/L}$  and  $CaSO_4 = 136 \text{ mg/L}$ . Temporary hardness in ppm is

[Question ID = 
$$24013$$
]

1. 150

2. 350
3. 500
4. 200
Correct Answer :-
• 150
16) The process which removes all ionic, colloidal and high molecular weight organic matter in water is [Question ID = 24014]
1. Ion exchange process
zeolite process     Reverse osmosis
4. Lime soda process
Correct Answer :-
Reverse osmosis
17) The monomer used in PVC preparation is [Question ID = 24015]
1. Ethene
2. Chloroethene
Dichloroethene     Tetrachloroethene
ii reademorocarene
Correct Answer :-
Chloroethene
40). The about of the continuous form and the Valencian in the continuous form of the conti
18) The chemical used for accelerating Vulcanization is
[Question ID = 24016]
1. ZnO
2. SiO <sub>2</sub>
3. Sulphur
4. Zinc sterate
Correct Answer :-
• Sulphur
19) Which one of the following type of forces are present in Nylon-6,6 [Question ID = 24017]
Electrostatic forces of attraction     Hydrogen bonding

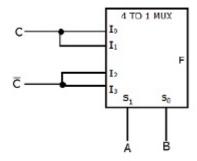
3. Three dimensional network of bonds

4. Metallic bonding

	Hydrogen bonding
	20) Which one of the following is a primary pollutant
	[Question ID = 24018]
	1. <b>CO</b>
	2. PAN
	3. Aldehyde
	4. H <sub>2</sub> SO <sub>4</sub>
	Correct Answer :-
	• co
	21) Ozone layer of upper atmosphere is being destroyed by
	[Question ID = 24019]
	[Question 15 - 24015]
	Photochemical oxidants like O <sub>2</sub> and CO <sub>2</sub>
	1.
	2. Chloro fluorocarbon
	3. <b>Smog</b>
	$SO_2$
	4.
	Correct Answer :-
	Chloro fluorocarbon
_	22) Eutrophication causes reduction in [Question ID = 24020]
	1. Dissolved salts
	2. Dissolved hydrogen
	<ul><li>3. Dissolved oxygen</li><li>4. Dissolved solids</li></ul>
	Correct Answer:-
	Dissolved oxygen
	23) Which one of the chemical substance is maximum in natural gas [Question ID = 24021]

CH <sub>4</sub>
C <sub>2</sub> H <sub>6</sub>
3. H <sub>2</sub>
4. CO+CO <sub>2</sub>
 Correct Answer :-
CH <sub>4</sub>
24) Which one of the following metals could provide cathodic protection to iron [Question ID = 24022]
1. Cu and Ni 2. Zn and Cu
3. Al and Zn
 4. Al, Zn and Ni
Correct Answer :-  • Al and Zn
 Al dilu Zii
25) Rusting of iron is catalysed by which of the following
25) Rusting of iron is catalysed by which of the following  [Question ID = 24023]
[Question ID = 24023]
[Question ID = 24023] 1. Fe 2. Zn
[Question ID = 24023] 1. Fe
[Question ID = 24023] 1. Fe 2. Zn
[Question ID = 24023]  1. Fe  2. Zn  3. $O_2$ H <sup>+</sup>
[Question ID = 24023]  1. Fe  2. Zn  3. $O_2$ $H^+$ 4.
[Question ID = 24023]  1. Fe  2. Zn  3. O <sub>2</sub> H <sup>+</sup> 4. Correct Answer :-
[Question ID = 24023]  1. Fe  2. Zn  3. O <sub>2</sub> H <sup>+</sup> 4. Correct Answer:-  H <sup>+</sup>
[Question ID = 24023]  1. Fe  2. Zn  3. O <sub>2</sub> H <sup>+</sup> 4. Correct Answer :-
[Question ID = 24023]  1. Fe  2. Zn  3. O <sub>2</sub> H <sup>+</sup> 4. Correct Answer:-  H <sup>+</sup>

The logic realized by the following circuit at output F is



### [Question ID = **13660**]

- 1. B+C
- 2. A.C
- 3. A+C
- 4. B.C

#### **Correct Answer:-**

- A+C
- 2) We are given a set of n distinct elements and an unlabeled binary tree with n nodes. In how many ways can we populate the tree with the given set so that it becomes a binary search tree? [Question ID = 13661]
- 1. 0
- 2. 1
- 3. n!
- $(1/(n+1))2nC_n$

#### **Correct Answer:-**

.

3) A priority queue is implemented as a Max-Heap. Initially, it has 5 elements. The level-order traversal of the heap is: 10, 8, 5, 3, 2. Two new elements 1 and 7 are inserted into the heap in that order. The level-order traversal of the heap after the insertion of the elements

is: \_\_\_\_\_

### [Question ID = 13662]

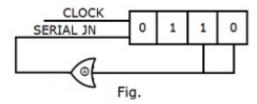
- 1. 10, 8, 7, 3, 2, 1, 5
- 2. 10, 8, 7, 2, 3, 1, 5
- 3. 10, 8, 7, 1, 2, 3, 5
- 4. 10, 8, 7, 5, 3, 2, 1

• 10, 8, 7, 3, 2, 1, 5
4) You have an array of n elements. Suppose you implement quicksort by always choosing the central element of the array as the pivot. Then the tightest upper bound for the worst case performance is [Question ID = 13663]
$O(n^2)$
O(n Log n)
$\theta(n \text{ Log } n)$ 3.
O(n <sup>3</sup> )
Correct Answer :-
$O(n^2)$
5) Consider a hash table with 9 slots. The hash function is h(k) = k mod 9. The collisions are resolved by chaining. The following 9 keys are inserted in the order: 5, 28, 19, 15, 20, 33, 12, 17, 10. The maximum, minimum, and average chain lengths in the hash table, respectively, are
resolved by chaining. The following 9 keys are inserted in the order: 5, 28, 19, 15, 20, 33, 12, 17, 10.
resolved by chaining. The following 9 keys are inserted in the order: 5, 28, 19, 15, 20, 33, 12, 17, 10.  The maximum, minimum, and average chain lengths in the hash table, respectively, are
resolved by chaining. The following 9 keys are inserted in the order: 5, 28, 19, 15, 20, 33, 12, 17, 10.  The maximum, minimum, and average chain lengths in the hash table, respectively, are  [Question ID = 13664]
resolved by chaining. The following 9 keys are inserted in the order: 5, 28, 19, 15, 20, 33, 12, 17, 10.  The maximum, minimum, and average chain lengths in the hash table, respectively, are  [Question ID = 13664]  1. 3, 0 and 1
resolved by chaining. The following 9 keys are inserted in the order: 5, 28, 19, 15, 20, 33, 12, 17, 10.  The maximum, minimum, and average chain lengths in the hash table, respectively, are  [Question ID = 13664]  1. 3, 0 and 1  2. 3, 3 and 3
resolved by chaining. The following 9 keys are inserted in the order: 5, 28, 19, 15, 20, 33, 12, 17, 10.  The maximum, minimum, and average chain lengths in the hash table, respectively, are  [Question ID = 13664]  1. 3, 0 and 1  2. 3, 3 and 3  3. 4, 0 and 1
resolved by chaining. The following 9 keys are inserted in the order: 5, 28, 19, 15, 20, 33, 12, 17, 10.  The maximum, minimum, and average chain lengths in the hash table, respectively, are  [Question ID = 13664]  1. 3, 0 and 1  2. 3, 3 and 3  3. 4, 0 and 1  4. 3, 0 and 2
resolved by chaining. The following 9 keys are inserted in the order: 5, 28, 19, 15, 20, 33, 12, 17, 10.  The maximum, minimum, and average chain lengths in the hash table, respectively, are  [Question ID = 13664]  1. 3, 0 and 1  2. 3, 3 and 3  3. 4, 0 and 1  4. 3, 0 and 2  Correct Answer:-

Correct Answer :-  • Primary key		
7) Which of the following adds a plain color to the background of a web page? [Question ID = 13666]		
1. <body color="#FF0000"></body>		
2. <body color="344445"></body>		
3. <body bgcolor="#FF0000"></body>		
Correct Answer :-		
<body bgcolor="#FF0000"></body>		
8) [(A+ A'B)(A+A'B')][(CD+C'D') + (C'D+CD')] can be minimized as		
[Question ID = 10903]		
1. B		
2. A 3. 0		
3. 0 4. 1		
Correct Answer :-		
• A		
9) When grouping cells within a K-map, the cells must be combined in groups of [Question ID = 10904]		
1. 2		
2. 4 3. 8		
3. 8 4. 1,2,4,8 etc		
Correct Answer :-		
• 1,2,4,8 etc		
10) The simultaneous equations of boolean variables x, y, z and w are: $x + y + z = 1$ , $xy = 0$ , $xz + w = 1$ and $xy + (zw)' = 0$ have the following solutions for x, y, z and w respectively. [Question ID = 10905]		
1. 0100		
2. 1101		
3. 1011		

4. 1000
Correct Answer :-  • 1011
11) The widely adapted combination circuit implementation method with maximum output functions and minimum requirement of ICs is [Question ID = 10907]
Multiplexer     Decoder
3. Encoder 4. Parity Generator
Correct Answer :-  • Decoder
A synchronous sequential circuit consists of two cascaded D flip flops with $D_0 = Q_1$ , $D_1 = Q_0$ . The logic states of $Q_0$ and $Q_1$ immediately after 777 th clock pulse will be
[Question ID = 10908]
1. 1 2. 10
3. 100 4. 778
Correct Answer :- • 10
42)
A synchronous counter consists of two cascaded JK flip flops with $J_0 = Q_1$ , $J_1 = Q_0$ , $K_0 = K_1 = 1$ . The circuit represents
[Question ID = 10909]
1. Mod- 3 counter 2. Mod-4 counter
3. Mod -5 counter 4. Mod - 7 counter
Correct Answer :-  • Mod- 3 counter
14)

The initial contents of the 4-bit serial – n-parallel-out right shift register as shown in the following figure is 0110, after three clock cycles are applied, the contents of the shift register will be



#### [Question ID = 10910]

- 1.0000
- 2, 1010
- 3.0101
- 4. 1111

#### **Correct Answer:-**

• 1010

15) A 4- bit shift register in which the outputs of 3rd and 4th flip-flops are connected parallel through an ex-or gate back to the first flipflop input. If initially all flipflop outputs set to 1's, the circuit produces output sequence: [Question ID = 10911]

- 1. 1111 1111 0000 0000
- 2. 1111 0000 1111 0000
- 3. 1111 0001 0011 0101
- 4. 1010 1010 1010 1010

#### **Correct Answer:-**

• 1111 0001 0011 0101

16) A 16 K x 8 memory is to be expanded to 32 K x 8 . How many 16 K x 1 RAMS are required [Question ID = 10912]

- 1.8
- 2. 16
- 3. 32
- 4. 128

#### **Correct Answer:-**

16

17) The access time (t<sub>acc</sub>) of a memory IC is governed by the IC's:

### [Question ID = **10913**]

- 1. internal address buffer
- 2. internal address decoder
- 3. volatility
- 4. internal address decoder and volatility

Correct Answer :-
internal address decoder
18) The semiconductor memories are organized as dimension(s) of array of memory
locations. [Question ID = 10914]
1. one
2. two
3. three
4. four
T. IOUI
Correct Anguar I
Correct Answer :-
• two
19) In 8086 which the following has the highest priority among all the external interrupts?
[Question ID = 10915]
1. NMI
2. DIV O
3. TYPE 255
4. OVER FLOW
O
Correct Answer :-
• NMI
<ul> <li>20) During the execution of instructions, if an instruction is executed, then next instruction is executed only when the data is read by [Question ID = 10916]</li> <li>1. control unit</li> <li>2. bus interface unit</li> <li>3. execution unit</li> <li>4. CPU</li> </ul>
Correct Answer :-
bus interface unit
<u>}</u>
Number of the times the instruction sequence below will loop before coming out of loop is  MOV AL, 00h
A1: INC AL
JNZ A1
[Question ID = 10917]
1. 00
2. 01
3. 255
4. 256
T. 230
Correct Answer :-

<ul><li>256</li></ul>		~ =	-
	_	) L	_

# 22) If the offset of the operand is stored in one of the index registers, then it is [Question ID = 10918]

- 1. based indexed addressing mode
- 2. relative based indexed addressing mode
- 3. indexed addressing mode
- 4. relative addressing mode

#### **Correct Answer:-**

indexed addressing mode

# 23) The 80286 can be upward object code compatible with 8086 or 8088 when it is operated in [Question ID = 10919]

- 1. normal mode
- 2. real and virtual address mode
- 3. virtual address mode
- 4. real mode

#### **Correct Answer:-**

real mode

# 24) Which of the following is not a scale factor of addressing modes of 80386? [Question ID = 10920]

- 1. 2
- 2.4
- 3. 6
- 4.8

#### **Correct Answer:-**

• 6

#### 25)

Which of the following statements are true about coprocessor/accelerator?

- Designed to provide fast, low cost implementation for complex arithmetic operations
- a processor with separate instruction set that is closely coupled to the CPU
- a processor whose instructions and registers are direct extensions of the CPU

#### [Question ID = **10921**]

- 1. i, ii
- 2. ii, iii
- 3. i, iii
- 4. i, ii, iii

#### **Correct Answer:-**

• i, ii, iii				
Which of the following is not an advantage of Booth's algorithm?				
i.				
ii.	Booth's algorithm achieves some efficiency in the number of additions required when the multiplier has few large blocks of 1's			
iii.	The speed of doing multiplication by Booth's algorithm is more than the normal algorithm of average.			
[Questio	n ID = 10922]			
1. i, ii 2. iii 3. ii, iii 4. i, iii	1. i, ii 2. iii 3. ii, iii			
Correct A	Answer :-			
27) To preserve accuracy during floating point calculations one or more extra bits are temporarily attached to the right end of the mantissa. Such bits are called as [Question ID = 10923]				
<ol> <li>Denorn</li> <li>Equaliz</li> </ol>	<ol> <li>Guard bits</li> <li>Denormalized bits</li> <li>Equalized bits</li> <li>Normalized bits</li> </ol>			
Correct A	Answer :- bits			
	pose the largest n-bit binary number requires 'd' digits in decimal representation. Which of wing relations between 'n' and 'd' is approximately correct? [Question ID = 10924]			
d = 2	n.			
$n = 2^d$ 2.				
$d < n \log_{10} 2$				
d > n 4.	$d > n \log_{10} 2$			
Correct A	Answer :-			
d > n	$\log_{10} 2$			

29) Which of the following statements is true about a bit-slice processor? [Question ID = 10925]
1. It can be cascaded to get any desired word length processor
2. Its speed of operation is independent of the word length configured
<ul><li>3. It does not contain any equivalent to a program counter in a normal microprocessor</li><li>4. It contains only the data path of a normal CPU</li></ul>
4. It contains only the data path of a normal cro
Correct Answer :-
It can be cascaded to get any desired word length processor
30) The speed imbalance between memory access and CPU operation can be reduced by [Question ID = 10926]
1. Cache memory
2. using virtual memory
3. reducing the size of memory
4. increasing the size of the memory
Correct Answer :-
Cache memory
31) Microprogrammed control unit [Question ID = 10927]
1. is faster than a hard wired control unit
facilitate easy implementation of new instructions
3. is useful when very small programs are to be run
4. usually refers to the control unit of a microprocessor
Correct Answer :-
facilitate easy implementation of new instructions
32) In case of a direct mapping of cache, the mapping is expressed as [Question ID = 10928]
1. Cache line number = (main memory block number) modulo (number of lines in the cache)
2. Cache line number = (number of lines in the cache) modulo (main memory block number)
3. number of lines in the cache = (cache line number) modulo (main memory block number)
4. number of lines in the cache = (main memory block number) modulo (cache line number)
Correct Answer :-
• Cache line number = (main memory block number) modulo (number of lines in the cache)
33) In the program controlled I/O method, the CPU stays in a program loop to [Question ID = 10929]
1. indicate that it is ready for data transfer
2. indicate that it is not ready for data transfer
3. check the device for readiness and complete the data transfer
4. check for the readiness of other devices while data is being transferred
Correct Answer :-

	bits do not contain information but are used in serial communication for uestion ID = 10930]
1. Error detection	
2. Error correction	
3. Synchronization	
4. Slowing down the c	ommunication
Correct Answer :-	
Synchronization	
35) What will be	the output of the following C code?
	ude <stdio.h></stdio.h>
	ine x 5+2
	ain ( )
{	
	int i;
	i = x * x* x;
	printf("%d", i);
	return 0;
}	
[Question ID = 109	31]
1. 343	
2. 27	
3. 132	
4. 160	
Correct Answer :-	
• 27	
<b>36)</b> What does the	e following function print?
int fur	nc (int i)
{	
	if (i % 2) return 0;
	else return 1;
}	
Int ma	ain( )
{	int i 2.
	Int I= 3
	int i=3;
	i = func(i);

```
[Question ID = 10932]
1.3
2. 1
3.0
4. 2
Correct Answer:-
• 1
What will be the value retuned by the following function, when it is called with a value
    11?
             Int recur(int num)
                     if ((num/2)!=0)
                     return ( recur(num/2 ) * 10+num\%2 );
                     else return 1;
[Question ID = 10933]
1. Function does not return any value, because it goes into an infinite loop
2. 11
3. 1011
4. 1110
Correct Answer:-
1011
38) Which of the following statements mentioning the name of the array begins DOES NOT
    yield the base address?
     i: When array name is used with the sizeof operator.
     ii: When array name is operand of the & operator.
     iii: When array name is passed to scanf() function.
     iv: When array name is passed to printf() function.
[Question ID = 10934]
1. i
2. i and ii
3. ii
4. ii and iv
```

#### **Correct Answer:-**

• i and ii

39) What will be the output of the following code? struct abc int a; int b; } v[3], \*p; main() p=v; p -> a = 3;p->b = p->a;printf("\n %d\t%d", v[0].a, v[0].b); [Question ID = **10935**] 1.3 4 2.4 3 3. Garbage Value 4.3 3 **Correct Answer:-**• 3 3 **40)** What is the missing statement in the following function which copies string x into string y? void strepy (char \*x, char \*y) while( \*y != '\0') .....;/\* missing statement \*/  $*x = '\0';$ [Question ID = 10936] 1. x = y2. \*x ++=\*y++ 3. (\*x)++=(\*y)++ 4. Error **Correct Answer:-**• \*x ++=\*y++

4. Invalid because main function cannot call itself

#### **Correct Answer:-**

• 6420

42) In the following C code,

main ()

{

FILE \* f= fopen (filename, "r");

fread(f);

if (????)

puts("end of file reached");

}

Which of the following can replace ???? in the above code to determine, if the end of a file has been reached?

#### [Question ID = 10938]

- 1. f = EOF
- 2. feof(f)
- 3. eof(f)
- 4. f = NULL

#### **Correct Answer:-**

feof(f)

43) Consider the tree arcs of a BFS traversal from a source node W in an unweighted, connected, undirected graph. The tree T formed by the tree arcs is a data structure for computing

[Question ID = 10939]

1. the shortest path between every pair of vertices

- 2. the shortest path from W to every vertex in the graph
- 3. the shortest paths from W to only those nodes that are leaves of T
- 4. the longest path in the graph

Correct Answer :-	
the shortest path from W to every vertex in the graph	
44) If we use merge sort to sort an array with n elements, what is the worst cas the sort? [Question ID = 10944]	se time required for
1. O(1)	
2. O(Log n) 3. O(n)	
4. O(n Log n)	
Correct Answer :-	
• O(n Log n)	
45) If the MAX_SIZE is the size of the array used in the implementation of circul index start with 0, front point to the first element in the queue, and rear point to the queue. Which of the following condition specify that circular queue is FULL?	
[Question ID = 10945]	
1. front = rear = -1	
2. front = (rear+1) % MAX_SIZE	
3. rear = front + 1	
4. rear = (front + 1) % MAX_SIZE	
Correct Answer :-	
• front = (rear+1) % MAX_SIZE	
<b>46)</b> If the sequence of operations –	
push(1), push(2), pop, push(1), push(2), pop, pop, pop, push(2), pop	
are performed on a stack, the sequence of popped out values are	
[Question ID = 10946]	
1. 2 2 1 2 2	
2. 2 2 1 1 2 3. 2 1 2 2 1	
4. 2 1 2 2 2	
Correct Answer :-	
• 22112	

[Question ID = 10947]		
1. Application Layer		
2. Transport Layer		
3. Data Link Layer		
4. Session Layer		
Correct Answer :-		
Application Layer		
<ul><li>other by intervening IPv4 routers.</li><li>= 10948]</li><li>1. Use dual-stack approach</li><li>2. Tunneling</li></ul>	nt to interoperate using IPv6 datagrams but are connected to each  The best solution here is [Question ID	
<ul><li>3. No solution</li><li>4. Replace the system</li></ul>		
Correct Answer :-  • Tunneling		
49) In HTTP pipelining	[Question ID = 10949]	
1. multiple HTTP requests are sent on a single TCP connection without waiting for the corresponding 2. multiple HTTP requests cannot be sent on a single TCP connection 3. multiple HTTP requests are sent in a queue on a single TCP connection 4. single HTTP request is addressed from a queue		
Correct Answer :-		
multiple HTTP requests are sent on a	a single TCP connection without waiting for the corresponding responses	
50) Which field helps to check rea	arrangement of the fragments? [Question ID = 10950]	
<ol> <li>offset</li> <li>flag</li> <li>TTL</li> <li>identifier</li> </ol>		
Correct Answer :-  • offset		
51) Consider a token ring network monitoring station. The propag transmission time is ignored. If	with a length of 2 km having 10 stations including a gation speed of the signal is $2 \times 10^8$ m/s and the token each station is allowed to hold the token for 2 µsec, the nonitoring station should wait (in µsec) before assuming	

[Question ID = 10951]	
1. 28 to 30	
2. 20 to 22	
3. 0 to 2	
4. 31 to 33	
Correct Answer :-	
• 28 to 30	
52) If a class B network on the Internet has a subnet mask of 255.255.248	3.0, what is the maximum
number of hosts per subnet? [Question ID = 10952]	,
1. 1022	
2. 1023	
3. 2046	
4. 2048	
Correct Answer :-	
• 2046	
53) For a particular code to be shareable, it should be[Que	estion ID = 10953]
1. serially executing code	
2. reusable code	
reentrant code     reducible code	
4. reducible code	
Correct Answer :-	
reentrant code	
54) Dijkstra's bankers algorithm in an operating system solves the problem	m of
[Question ID = 10954]	
1. deadlock avoidance	
2. deadlock detection	
3. mutual exclusion	
4. Page replacement	
Correct Answer :-	
deadlock avoidance	
55) At a particular time of computation the value of a counting semaphore operations and 18 V operations are performed on that semaphore. What is semaphore? [Question ID = 10955]	
1. 2	
2. 3	
32	
43	
Correct Answer :-	
3	

involved, then it is said to be a	[Question ID = 10956]
1. deadlock	
2. critical section	
3. race condition	
4. memory leak	
Correct Answer :-	
race condition	
57) During context switching which of the foll	owing need not be saved? [Question ID = 10957]
General purpose registers	
2. Program counter	
<ul><li>3. Stack pointer</li><li>4. Translation-look-aside buffer</li></ul>	
T. ITAIISIAUOIT-IOOK-ASIUE DUITEF	
Correct Answer :-	
Translation-look-aside buffer	
58) The root directory of a file system should	be placed [Question ID = 10958]
1. At a fixed address in main memory	
2. At a fixed location in the file system	
3. At a fixed location on the system disk	
4. Anywhere on the system disk	
Correct Answer :-	
At a fixed location in the file system	
59) Using a larger block size in a file system l	eads to [Question ID = 10959]
1. Better disk throughput but poorer disk space utiliza	
2. Better disk throughput and better disk space utiliza	
3. Poorer disk throughput and poorer disk space utilized	
4. Poorer disk throughput and poorer disk space utiliz	ZAUOTI
Correct Answer :-	- <del>L.</del>
Better disk throughput but poorer disk space utilize	аиоп 
60) In which one of the following page replac [Question ID = 10960]	ement algorithms, Belady's anomaly may occur?
1. Optimal	
2. LRU	
3. MFU	
4. FIFO	
Correct Answer :-	
COLLECT WILL	

61) Consider a machine with 64MB physical memory and 32-bit virtual address space. If the page size is 4KB and one page table entry occupies 4-bytes, then what is the size of the page table? [Question ID = 10961]
1. 4MB
2. 8MB 3. 16MB
4. 2MB
Correct Answer :-  • 4MB
• TIME
62) Where does swap space reside? [Question ID = 10962]
1. RAM 2. ROM
3. DISK
4. Cache memory
Correct Answer :-
• DISK
63) Sector interleaving in a disk is done by [Question ID = 10963]
1. The disk manufacturer
Disk controller     The operating system
4. The user
Correct Answer :-
The operating system
64) Which one of the following methods, for storing free block information, require additional space to be reserved? [Question ID = 10964]
1. Bit vector
2. Linked list
<ul><li>3. Grouping</li><li>4. Counting</li></ul>
i. Counting
Correct Answer :-
Bit vector
65) Which of the following disk scheduling algorithm gives the best throughput? [Question ID = 10965]
1. FCFS
2. SCAN
2. SCAN 3. LOOK
2. SCAN

• SSTF
66) In UNIX traditional scheduling [Question ID = 10966]
1. a CPU-bound process is given higher priority than an I/O bound process
2. an I/O-bound process is given higher priority than a CPU-bound process
3. Both CPU-bound and I/O-bound processes are given equal priority
4. It depends on the current load on the system
Correct Answer :-
an I/O-bound process is given higher priority than a CPU-bound process
67) Which of the following clause is needed to sort the values of a particular column? [Question ID = 10967]
1. Having
2. Order by
3. Group by
4. Sort by
Correct Answer :-
Order by
68) The column of a table in relational model is referred to as [Question ID = 10968]  1. Tuple 2. Attribute 3. Entity
4. Degree
Correct Answer :-
Attribute
69) CREATE TABLE is an example for [Question ID = 10969]
1. DDL
2. DCL
3. DML
4. DTL
Correct Answer :-
• DDL
70) To modify the structure of a table the following command is used [Question ID = 10970]
1. MODIFY
2. ALTER TABLE
3. UPDATE
4. CORRECT

Correct Answer :-
ALTER TABLE
71) In which normal form every non-key attribute is non-transitively depending on key attribute? [Question ID = 10971]
1. First 2. second
3. Third
4. Fourth
Correct Answer :-
• Third
72) An index which contains at least one data entry for every search key value that appears in a record in the indexed file is [Question ID = 10973]
1. Primary index
Secondary index     Dense index
4. Clustered index
Correct Answer :-
Dense index
73) All locks obtained by a transaction are unlocked after the transaction [Question ID = 10974]
1. Commit
2. Grant
3. Revoke 4. Compile
Correct Answer :-  • Commit
• Commit
74)
Which of the following is true about the static member variable in C++?
<ol> <li>It is initialized to zero when the first object of its class is created. Other initialization is also permitted.</li> </ol>
<ol> <li>It is visible only within the class, but its lifetime is the entire program.</li> </ol>
[Question ID = 10975]
1. i-True, ii-True
2. i-False, ii-True
3. i-True, ii-False 4. i-False, ii-False
Correct Answer :-

· i-False, ii-True

#### 75) Which of the following statements is incorrect? [Question ID = 10976]

- 1. Friend keyword can be used in the class to allow access to another class
- 2. Friend keyword can be used for a function in the public section of a class
- 3. Friend keyword can be used for a function in the private section of a class
- 4. Friend keyword can be used on main()

#### **Correct Answer:-**

Friend keyword can be used on main()

## **76)** What will happen in this code?

```
int a = 100, b = 200;
int *p = &a, *q = &b;
p = q;
```

#### [Question ID = 10977]

- 1. b is assigned to a
- 2. p now points to b
- 3. a is assigned to b
- 4. q now points to a

#### **Correct Answer:-**

p now points to b

## 77) What is the output of this program?

#### [Question ID = 10978]

- 1. ABCDEFGHIJ
- 2. AAAAAAAAAA
- 3. )))))))
- 4. BBBBBBBBBB

#### **Correct Answer:-**

ABCDEFGHIJ

#### 78) Where does a cin stop its extraction of data? [Question ID = 10979]

- 1. by seeing (
- 2. when a blank space is encountered
- 3. when user stops typing
- 4. when keyboard buffer is full

#### **Correct Answer:-**

· when a blank space is encountered

#### 79) ios::trunc is used for? [Question ID = 10980]

- 1. if the file is opened for output and it already existed, its previous content is deleted and replaced by new one
- 2. if the file is opened for output and it already existed, no action is taken
- 3. if the file is opened for input and it already existed, the file is truncated
- 4. if the file is opened for input, it position file at the end of file

#### **Correct Answer:-**

• if the file is opened for output and it already existed, its previous content is deleted and replaced by new one

# 80) Which of the following advantages we lose by using multiple inheritance? [Question ID = 10981]

- 1. static binding
- 2. Polymorphism
- 3. dynamic bringing
- 4. virtulization

#### **Correct Answer:-**

dynamic bringing

#### 81) Which exception is thrown by dynamic\_cast? [Question ID = 10982]

- 1. bad\_cast
- 2. bad\_typeid
- 3. bad\_exception
- 4. bad\_alloc

#### **Correct Answer:-**

bad\_cast

82)

## What is the output of this program? #include<iostream> #include <fstream> using namespace std; int main () ofstream outfile ("test.txt"); for (int n = 0; n < 100; n++) outfile << n; outfile.flush(); cout << "Done"; outfile.close(); return 0; [Question ID = 10983] 1. Done 2. Error 3. Runtime error 4. File not found exception **Correct Answer:-** Done 83) What must be specified when we construct an object of class ostream? [Question ID = 10984] 1. stream 2. streambuf 3. memory 4. fstream **Correct Answer:-** streambuf 84) Which one among the following is a legal declaration and initialization of an array in Java language?

```
[Question ID = 10985]

1. int a[] = {"1", "2", "3", "4"};

2. int a[] = {1, 2, 3, 4};

3. int a[] = {1, 2, 3, 4};

4. int a[][] = {1, 2, 3, 4};
```

Correct Answer :-
• int a[] = {1, 2, 3, 4};
85) Applet method getParameter(String paramName), in Java language is used for [Question ID = 10986]
<ol> <li>Getting the parameter value as a String</li> <li>Getting the environment variable</li> <li>Getting the program argument</li> </ol>
4. Getting the parameter value as a number
Correct Answer :-
Getting the parameter value as a String
86) Synchronized method of a class, in Java language, makes [Question ID = 10987]
<ol> <li>the system is synchronized with other systems</li> <li>the method syncronized with other methods</li> <li>the method work as an entry method of a monitor</li> <li>the class is synchronized with the program</li> </ol>
Correct Answer :-
the method work as an entry method of a monitor
87) Member method isAlive() of Thread class of Java language, is used for [Question ID = 10988]
<ol> <li>testing whether the process is alive</li> <li>testing whether the thread is currently running</li> <li>testing for whether the process is currently running</li> <li>testing whether the thread is active</li> </ol>
Correct Answer :-  • testing whether the thread is active
88) The keyword 'throws' is used for [Question ID = 10989]
<ol> <li>throwing an exception</li> <li>throwing an object</li> <li>indicates that the specified exceptions may be raised in the corresponding method</li> <li>raising a list of exceptions explicitly</li> </ol>
<ul><li>Correct Answer:-</li><li>indicates that the specified exceptions may be raised in the corresponding method</li></ul>
89) ArrayIndexOutOfBounds exception in Java language is raised when [Question ID = 10990]
<ol> <li>an index outside the limits of array is used</li> <li>a non-integer is used as an index</li> <li>a non-array is accessed using array indexing</li> </ol>

4. an array is accessed using zero index value
Correct Answer :-
an index outside the limits of array is used
90) Which one of the following statements, in the context of Java language, is wrong? [Question ID = 10991]
<ol> <li>A member with no access modifier can be accessed in a non-subclass in the same package</li> <li>A member with protected modifier cannot be accessed in a subclass of a different package</li> <li>A member with protected modifier can be accessed in a non-subclass of the same package</li> <li>A member with private modifier can be accessed only in its own class</li> </ol>
Correct Answer :-
A member with protected modifier cannot be accessed in a subclass of a different package
· · · · · · · · · · · · · · · · · · ·
91) A final method in Java language indicates that [Question ID = 10992]
1. it is a last method being executed
2. it is a last handler for an exception
it is a constant method     it cannot be overloaded
T. It carried be overloaded
Correct Answer :-
it cannot be overloaded
92) The '>>>' operator in Java language is used for [Question ID = 10993]  1. Rotating right signed 2. Shifting right signed
Rotating right signed     Shifting right signed
1. Rotating right signed
<ol> <li>Rotating right signed</li> <li>Shifting right signed</li> <li>Rotating right unsigned</li> <li>Shifting right unsigned</li> </ol>
<ol> <li>Rotating right signed</li> <li>Shifting right unsigned</li> <li>Rotating right unsigned</li> <li>Shifting right unsigned</li> </ol> Correct Answer:-
<ol> <li>Rotating right signed</li> <li>Shifting right signed</li> <li>Rotating right unsigned</li> <li>Shifting right unsigned</li> </ol>
<ol> <li>Rotating right signed</li> <li>Shifting right unsigned</li> <li>Rotating right unsigned</li> <li>Shifting right unsigned</li> </ol> Correct Answer:-
<ol> <li>Rotating right signed</li> <li>Shifting right unsigned</li> <li>Rotating right unsigned</li> <li>Shifting right unsigned</li> </ol> Correct Answer:- <ul> <li>Shifting right unsigned</li> </ul> 93) Which one of the following statements is true in Java language? [Question ID = 10994] <ol> <li>Simple variables can be passed either by value or by reference</li> </ol>
<ol> <li>Rotating right signed</li> <li>Shifting right unsigned</li> <li>Rotating right unsigned</li> <li>Shifting right unsigned</li> </ol> Correct Answer:- <ul> <li>Shifting right unsigned</li> </ul> 93) Which one of the following statements is true in Java language? [Question ID = 10994] <ol> <li>Simple variables can be passed either by value or by reference</li> <li>Objects can be passed either by value or by reference</li> </ol>
<ol> <li>Rotating right signed</li> <li>Shifting right unsigned</li> <li>Shifting right unsigned</li> <li>Shifting right unsigned</li> </ol> Correct Answer:- <ul> <li>Shifting right unsigned</li> </ul> 93) Which one of the following statements is true in Java language? [Question ID = 10994] <ol> <li>Simple variables can be passed either by value or by reference</li> <li>Objects can be passed only by reference</li> </ol> 3. Objects can be passed only by reference
<ol> <li>Rotating right signed</li> <li>Shifting right unsigned</li> <li>Rotating right unsigned</li> <li>Shifting right unsigned</li> </ol> Correct Answer:- <ul> <li>Shifting right unsigned</li> </ul> 93) Which one of the following statements is true in Java language? [Question ID = 10994] <ol> <li>Simple variables can be passed either by value or by reference</li> <li>Objects can be passed either by value or by reference</li> </ol>
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<ol> <li>Rotating right signed</li> <li>Shifting right unsigned</li> <li>Shifting right unsigned</li> <li>Shifting right unsigned</li> </ol> Correct Answer:- <ul> <li>Shifting right unsigned</li> </ul> 93) Which one of the following statements is true in Java language? [Question ID = 10994] <ol> <li>Simple variables can be passed either by value or by reference</li> <li>Objects can be passed either by value or by reference</li> <li>Objects can be passed only by reference</li> <li>Simple variables can be passed only by reference</li> <li>Simple variables can be passed only by reference</li> </ol>
<ol> <li>Rotating right signed</li> <li>Shifting right unsigned</li> <li>Shifting right unsigned</li> <li>Shifting right unsigned</li> </ol> Correct Answer:- <ul> <li>Shifting right unsigned</li> </ul> 93) Which one of the following statements is true in Java language? [Question ID = 10994] <ol> <li>Simple variables can be passed either by value or by reference</li> <li>Objects can be passed either by value or by reference</li> <li>Objects can be passed only by reference</li> <li>Simple variables can be passed only by reference</li> <li>Simple variables can be passed only by reference</li> </ol> Correct Answer:-
<ol> <li>Rotating right signed</li> <li>Shifting right unsigned</li> <li>Shifting right unsigned</li> <li>Shifting right unsigned</li> </ol> Correct Answer:- <ul> <li>Shifting right unsigned</li> </ul> 93) Which one of the following statements is true in Java language? [Question ID = 10994] <ol> <li>Simple variables can be passed either by value or by reference</li> <li>Objects can be passed either by value or by reference</li> <li>Simple variables can be passed only by reference</li> <li>Simple variables can be passed only by reference</li> <li>Simple variables can be passed only by reference</li> <li>Objects can be passed only by reference</li> </ol> Correct Answer:- <ul> <li>Objects can be passed only by reference</li> </ul> 94) Which of the following is not a basic HTML document structure? [Question ID = 10995]
<ol> <li>Rotating right signed</li> <li>Shifting right unsigned</li> <li>Rotating right unsigned</li> <li>Shifting right unsigned</li> </ol> Correct Answer: - <ul> <li>Shifting right unsigned</li> </ul> 93) Which one of the following statements is true in Java language? [Question ID = 10994] <ol> <li>Simple variables can be passed either by value or by reference</li> <li>Objects can be passed either by value or by reference</li> <li>Simple variables can be passed only by reference</li> <li>Simple variables can be passed only by reference</li> <li>Objects can be passed only by reference</li> </ol> Correct Answer: - <ul> <li>Objects can be passed only by reference</li> </ul>
<ol> <li>Rotating right signed</li> <li>Shifting right unsigned</li> <li>Rotating right unsigned</li> <li>Shifting right unsigned</li> </ol> Correct Answer: <ul> <li>Shifting right unsigned</li> </ul> 93) Which one of the following statements is true in Java language? [Question ID = 10994] <ol> <li>Simple variables can be passed either by value or by reference</li> <li>Objects can be passed either by value or by reference</li> <li>Objects can be passed only by reference</li> <li>Simple variables can be passed only by reference</li> <li>Simple variables can be passed only by reference</li> </ol> Correct Answer:- <ul> <li>Objects can be passed only by reference</li> </ul> 94) Which of the following is not a basic HTML document structure? [Question ID = 10995] <ol> <li>Title</li> </ol>

Correct Answer :-
• Footer
95) Which is not considered a JavaScript operator? [Question ID = 10996]
1. New
2. This
3. Delete
4. Typeof
Correct Answer :-
• This
96) Which of the following attributes of the font tag is used to choose the type of font in HTML? [Question ID = $10998$ ]
1. Type
2. Text-Type
3. Face
4. Font-Type
Correct Answer :-
• Face
97) Thefilter applies transparency effects dynamically, without using a graphics editor to hard-code transparency into the image. [Question ID = 10999]
1. Flip
2. Blur
2. Blur 3. Shadow
2. Blur
2. Blur 3. Shadow
2. Blur 3. Shadow 4. Chroma
2. Blur 3. Shadow 4. Chroma  Correct Answer:-
2. Blur 3. Shadow 4. Chroma  Correct Answer:-
2. Blur 3. Shadow 4. Chroma  Correct Answer:- • Chroma
<ul> <li>2. Blur</li> <li>3. Shadow</li> <li>4. Chroma</li> <li>Correct Answer:-</li> <li>• Chroma</li> <li>98) What is the result of the following command: \$a = 1 + "apple"; ?</li> <li>[Question ID = 11000]</li> </ul>
<ul> <li>2. Blur</li> <li>3. Shadow</li> <li>4. Chroma</li> <li>Correct Answer:-</li> <li>• Chroma</li> <li>98) What is the result of the following command: \$a = 1 + "apple"; ?</li> </ul>
<ul> <li>2. Blur</li> <li>3. Shadow</li> <li>4. Chroma</li> <li>Correct Answer:- <ul> <li>Chroma</li> </ul> </li> <li>98) What is the result of the following command: \$a = 1 + "apple"; ?</li> <li>[Question ID = 11000]</li> <li>1. \$a is assigned the value "1apple."</li> </ul>
<ul> <li>2. Blur</li> <li>3. Shadow</li> <li>4. Chroma</li> <li>Correct Answer:- <ul> <li>Chroma</li> </ul> </li> <li>98) What is the result of the following command: \$a = 1 + "apple"; ?</li> <li>[Question ID = 11000]</li> <li>1. \$a is assigned the value "1apple."</li> <li>2. \$a is assigned the value 1</li> </ul>
<ul> <li>2. Blur</li> <li>3. Shadow</li> <li>4. Chroma</li> <li>Correct Answer:- <ul> <li>Chroma</li> </ul> </li> <li>98) What is the result of the following command: \$a = 1 + "apple"; ?</li> <li>[Question ID = 11000]</li> <li>1. \$a is assigned the value "1apple."</li> <li>2. \$a is assigned the value 1</li> <li>3. \$a is assigned the value "apple."</li> <li>4. it is an error</li> </ul> <li>Correct Answer:-</li>
<ul> <li>2. Blur</li> <li>3. Shadow</li> <li>4. Chroma</li> <li>Correct Answer:- <ul> <li>Chroma</li> </ul> </li> <li>98) What is the result of the following command: \$a = 1 + "apple"; ?</li> <li>[Question ID = 11000]</li> <li>1. \$a is assigned the value "1apple."</li> <li>2. \$a is assigned the value 1</li> <li>3. \$a is assigned the value "apple."</li> <li>4. it is an error</li> </ul>
<ul> <li>2. Blur</li> <li>3. Shadow</li> <li>4. Chroma</li> <li>Correct Answer:- <ul> <li>Chroma</li> </ul> </li> <li>98) What is the result of the following command: \$a = 1 + "apple"; ?</li> <li>[Question ID = 11000]</li> <li>1. \$a is assigned the value "1apple."</li> <li>2. \$a is assigned the value 1</li> <li>3. \$a is assigned the value "apple."</li> <li>4. it is an error</li> </ul> <li>Correct Answer:- <ul> <li>\$a is assigned the value 1</li> </ul> </li>
2. Blur 3. Shadow 4. Chroma  Correct Answer:  • Chroma  98) What is the result of the following command: \$a = 1 + "apple"; ?  [Question ID = 11000]  1. \$a is assigned the value "1apple." 2. \$a is assigned the value 1 3. \$a is assigned the value "apple." 4. it is an error  Correct Answer:  • \$a is assigned the value 1

- 3. Conform()
- 4. Close()

### **Correct Answer:-**

Move()

100) What is the output of the following PHP code?

$$a=array(2,3,4,1); x=a[3]; y=a[2]; print "y=y x=x";$$

### [Question ID = **11002**]

- 1. y=4 x=1
- 2. y=2 x=4
- 3. y= 1 x=4
- 4. y=4 x=2

#### **Correct Answer:-**

• y=4 x=1