# 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 :-

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

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]



2. [0]

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

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

Correct Answer :-

[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]

1. 
$$x = 1$$

$$_{2.} x = 2$$

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]

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



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

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

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

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

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]

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

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

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



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

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

9)

If x, y are in first quadrant, 
$$tan(x - y) = \frac{7}{24}$$
 and  $tan(x) = \frac{4}{3}$ , then  $x + y = \frac{1}{3}$ 

[Question ID = 13601]

$$\frac{3}{4}$$

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

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

Correct Answer :-

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

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

[Question ID = 13602]



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]

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

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

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

$$n\pi \mp \frac{\pi}{4}; n \in z$$

### Correct Answer :-

$$n\pi \pm \frac{\pi}{3}; n \in z$$

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

# [Question ID = 13605]

- 1. 5
- 2.
- 3



4. log<sub>e</sub> 5

Correct Answer :-

. 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*<sup>2</sup>

Correct Answer :-

 $a^2$ 

\_\_\_\_\_\_\_

**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]

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

# Correct Answer :-

- $\frac{1}{2}$
- 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 :-

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

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

[Question ID = 13612]

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

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

$$\frac{3}{4}$$

$$\frac{5}{2}$$



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

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

[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]

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

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

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

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

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

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

[Question ID = 13615]

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

$$\log x \left\{ \cot x \cdot \sin x + \frac{1}{x} \log(\sin x) \right\}$$
2.

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

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

Correct Answer :-

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

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. <sup>0</sup>
- 3. X

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

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 :-

0

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

[Question ID = 13618]

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

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

$$\frac{\log x}{1 + \log x}$$

$$4. \frac{\left(\log x\right)^2}{\left(1 + \log x\right)^2}$$

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

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

# [Question ID = 13621]

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

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

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

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



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

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

[Question ID = 13622]

1. 
$$tan^{-1}x + C$$

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]

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

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

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

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



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

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

[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 :-

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

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

[Question ID = 13625]

1. 
$$\sec x + \cot x$$

$$\cos e c x - \cot x$$

$$\cos ecx + \tan x$$

$$\sec x - \cos ecx$$



 $\sec x - \cos ecx$ 

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

# [Question ID = 13626]

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

### 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]



$$4\pi ab^2$$

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

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

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

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

37) dy -

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

# [Question ID = 13629]

1. 
$$y = Ce^x$$

$$y = Ce^{y}$$

$$y = xe^{ix}$$

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

#### Correct Answer :-

$$y = xe^{ix}$$

\_\_\_\_\_\_\_

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]



1. 
$$y'' + 2xy' - xy + x^2 = 0$$

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

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

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

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

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

[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]

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

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



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

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

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

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]

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

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

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

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

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

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

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

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

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]



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

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

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

$$_{\mathbf{4}} P(E_1 \cup E_2) = P(E_1) + P(E_2) - P(E_1 \cup E_2)$$

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

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]

1. 
$$x(t) = Ae^{t} + Be^{2t}$$

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

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

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

#### 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]



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

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

$$\frac{1}{(s-a)^n}$$
3.

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

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

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

# [Question ID = 23977]

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

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

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

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



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

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

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

# [Question ID = 23978]

$$\frac{1}{\pi}$$

- 1.
- 2.
- **3.** <sup>()</sup>
  - 2
- 4. <sup>π</sup>

### Correct Answer :-

- 2
- $\pi$

50)

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

# [Question ID = 23979]

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



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

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

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

Topic:- Physics\_set2

The physical quantity having the dimension [ML<sup>2</sup>T<sup>-1</sup>] is

# [Question ID = 34198]

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

#### Correct Answer :-

- power
- Force F is given by  $F=at +bt^2$  where t is time. The dimensions of a and b are

# [Question ID = 34199]

$$[MLT^{-3}]$$
 and  $[MLT^{-4}]$ 

[MLT
$$^{-1}$$
] and [MLT $^{0}$ ]

#### Correct Answer :-

[MLT<sup>-3</sup>] and [MLT<sup>-4</sup>]

collegedunia

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>
3. 60°
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. 0°
2. <sup>20°</sup>
3. <sup>45°</sup>
90° 4.
Correct Answer :-
• 90°
5) $\bar{a}$ and $\bar{b}$ are two vectors and $\theta$ is the angle between them. If $ \bar{a} \times \bar{b}  = \sqrt{3} (\bar{a}, \bar{b})$ , the value of $\theta$ is

# [Question ID = 34202]

- 1. 30°
- 2. 45°



3. 60°

4 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]



- 29.4 ms<sup>-1</sup>

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-,	111- 000	1113 01	110111	Denne 101			20120010	[Question	10 -	2-62-01

- 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]

$$\begin{array}{cc} & Tan^{-1}\mu \\ \textbf{1.} & \end{array}$$

3.

4.

#### Correct Answer :-

Tan <sup>-1</sup>μ

collegedunia

If water falls from a dam into a turbine wh	ieel 19.6 m below, then the velocity of water at the
turbine is (given g=9.8 ms <sup>-2</sup> )	

[Question ID	= 342091
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	0.0	- 1
1	9.8	ms
1.		

19.6 ms<sup>-1</sup>

13) Two springs of spring constants 1000 N/m and 1500 N/m respectively are stretched with a same force. Their potential energies will be in the ratio of

# [Question ID = 34210]

- 1. 2:3
- 2. 1:3
- 3.3:2
- 4. 2:1

#### Correct Answer :-

• 3:2

# 14) The mass of a body at the centre of earth is

# [Question ID = 34211]

- 1. less than that at the surface
- 2. remain constant
- 3. more than that at the surface
- 4. zero



· 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]

- 1. both kinetic energy and potential energies are minimum
- 2. kinetic energy is maximum, potential energy is minimum
- 3. kinetic energy is minimum, potential energy is maximum
- 4. both kinetic energy and potential energies are maximum

#### 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 m<sup>3</sup>. 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



		- CAR - CAR			
Corr	cock	Am	CDBS	OH	
V-COL I	C.L.		> vv	6-1	-

0.07

# 19) Which of the following is not a characteristic of musical sound? [Question ID = 34216]

- 1. pitch
- 2. loudness
- 3. frequency
- 4. quality

#### Correct Answer :-

frequency

### 20) In a simple harmonic motion, the particle is [Question ID = 34217]

- 1. always accelerated
- 2. alternately accelerated and retarded
- 3. always retarded
- 4. neither accelerated nor retarded

#### 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 change in its internal energy is (specific heat of water is 4200 J kg<sup>-1</sup>K<sup>-1</sup>)

### [Question ID = 34218]

- 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]

1. 
$$(T_1/H_2) + (T_2/H_1) = 0$$

2. 
$$(H_1/T_1) = (H_2/T_2)$$

3. 
$$H_1 T_1 = H_2 T_2$$

4. 
$$H_1T_1 + H_2T_2 = 0$$



_	
	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
2	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
	25)
	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 $i > i_c$ 1.
	light moves from denser to rarer medium and $i > i_c$ 2.
	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 $i > i_c$

 $(H_1/T_1) = (H_2/T_2)$ 

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1) For an f-orbital, the values of 'm' are [Question ID = 23999]

#### Correct Answer :-

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 < BeCl2 < BCl3 < CCl4
- 3. LiCl>BeCl2<BCl3>CCl4
- 4. LiCl<BeCl2<BCl3>CCl4

#### Correct Answer :-

• LiCl<BeCl2<BCl3<CCl4

3) Lowest oxidation state in its compound is exhibited by

# [Question ID = 24001]

- 1. N
- 2.0
- 3. C
- 4. F

#### Correct Answer :-

• F

4) Which of the following contains ionic, covalent and coordinate covalent bonds

### [Question ID = 24002]

- 1. NH<sub>4</sub>Cl
- 2.  $K_3[Fe(CN)_6]$
- 3. CuSO<sub>4</sub>
- 4. NH4Cl, CuSO4 and K3[Fe(CN)6]



5) Molarit	y of 4% (W/V) solution of NaOH is [Question ID = 24003]
1. 0.1	
2. 0.5	
3. 0.001	
4. 1	
Correct An	swer :-
• 1	
<b>6)</b> The wo	eight of H <sub>2</sub> C <sub>2</sub> O <sub>4</sub> . 2H <sub>2</sub> O 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 An	swer :-
• 6.3g	
7) The cor	jugate base of hydrogen molecule is [Question ID = 24005]
1. Electron	
2. Hydride id	on
3. Proton	
4. Hydroxide	ion
Correct An	swer :-
<ul> <li>Hydride id</li> </ul>	on
<b>8)</b> p <sup>H</sup> of a	solution is 1. It is diluted by 1X 10 <sup>3</sup> times. The p <sup>H</sup> of the resulting solution will be
[Ouestion	ID = 24006]
1. 1	
2. 3	
3. 4	



9) Which of the following is a basic flux
[Question ID = 24007]
$Na_{2}B_{4}O_{7}$ 1.
2. CaO
3. SiO <sub>2</sub>
4. $P_2O_5$
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>3</sup> ----> Fe 
$$E^0 = -0.036 \text{ V}$$

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

The standard electrode potential  $E^0$  for  $Fe^{-3+} + e^{-} - ---> Fe^{2+}$  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  $Mg(HCO_3)_2 = 73$  mg/L,  $Ca(HCO_3)_2 = 162$  mg/L,  $MgCl_2 = 95$  mg/L and  $CaSO_4 = 136$  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
2. zeolite process
3. 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
4. Tetracilloroetherie
Correct Answer :-
• Chloroethene
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]

- 1. Electrostatic forces of attraction
- 2. 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. CO
2. PAN
3. Aldehyde
H <sub>2</sub> SO <sub>4</sub>
Correct Answer :-
• co
21) Ozone layer of upper atmosphere is being destroyed by
[Question ID = 24019]
Photochemical oxidants like O <sub>2</sub> and CO <sub>2</sub> 1.
2. Chloro fluorocarbon
3. Smog
$SO_2$
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]

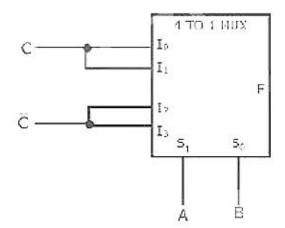


CH <sub>4</sub>
C <sub>2</sub> H <sub>6</sub>
3. H <sub>2</sub>
CO+CO <sub>2</sub>
Correct Answer :-
CH <sub>4</sub>
24) Which one of the following metals could provide cathodic protection to iron [Question ID = 24022]
1. Cu and Ni 2. Zn and Cu
3. Al and Zn 4. Al, Zn and Ni
Correct Answer :-
 Al and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

1)

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The logic realized by the following circuit at output F is



[0	TO	110/01	10000
Ouestion	TD	=	T2000

- 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!
- 4. (1/(n+1))2nC<sub>n</sub>

### Correct Answer :-

9**2**10

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

#### 15.

## [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

<ol><li>You have an array of r</li></ol>	elements. Suppose you implement quicksort by always choosing the
central element of the arr	ay as the pivot. Then the tightest upper bound for the worst case
performance is	[Question ID = 13663]

 $O(n^2)$ 

O(n Log n)

θ(n Log n)

 $O(n^3)$ 

## 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

## [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 :-

3, 0 and 1

- 6) Which of the following is a column in a table whose purpose is to uniquely identify the records from the same table? [Question ID = 13665]
- 1. Candidate key
- 2. Foreign key
- 3. Intelligent key
- 4. Primary key



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>
<pre><body bgcolor="#FF0000"></body></pre>
Correct Answer :-
<pre> <body bgcolor="#FF0000"></body></pre>
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 4. 1  Correct Answer:-
[Question ID = 10903]  1. B 2. A 3. 0 4. 1
[Question ID = 10903]  1. B  2. A  3. 0  4. 1  Correct Answer :-
[Question ID = 10903]  1. B 2. A 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 =
[Question ID = 10903]  1. B 2. A 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

- 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



Correct	Answer	:-

• 1011

- 11) The widely adapted combination circuit implementation method with maximum output functions and minimum requirement of ICs is [Question ID = 10907]
- 1. Multiplexer
- 2. 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<sub>1</sub> =  $Q_0$ . The logic states of  $Q_0$  and  $Q_1$  immediately after 777 the clock pulse will be

## [Question ID = 10908]

- 1. 1
- 2.10
- 3.100
- 4.778

#### Correct Answer :-

10

13)

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

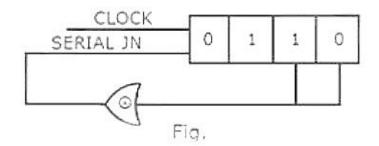
### Correct Answer :-

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  $\times$  8 memory is to be expanded to 32 K  $\times$  8 . How many 16 K  $\times$  1 RAMS are required [Question ID = 10912]

- 1.8
- 2.16
- 3.32
- 4. 128

#### Correct Answer :-

16

17) The access time  $(t_{acc})$  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	
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	
Correct Answer :- NMI	
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]	

- 1. control unit
- 2. bus interface unit
- 3. execution unit
- 4. CPU

bus interface unit

21)

Number of the times the instruction sequence below will loop before coming out of loop 15

## [Question ID = 10917]

- 1.00
- 2.01
- 3. 255
- 4. 256



## 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
- ii. a processor with separate instruction set that is closely coupled to the CPU
- iii. 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



			0.00
0	1,	11,	Ш

26)

Which of the following is not an advantage of Booth's algorithm?

- i. Booth's algorithm handles both positive and negative multipliers uniformly
- 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.

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

#### Correct 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]
- 1. Guard bits
- 2. Denormalized bits
- 3. Equalized bits
- 4. Normalized bits

#### Correct Answer :-

- · Guard bits
- 28) Suppose the largest n-bit binary number requires 'd' digits in decimal representation. Which of the following relations between 'n' and 'd' is approximately correct? [Question ID = 10924]

$$d = 2^n$$

1.

$$n = 2^d$$

2.

$$d < n \log_{10} 2$$

3.

$$d > n \log_{10} 2$$

4.

## Correct Answer :-

$$d > n \log_{10} 2$$

•



## 29) Which of the following statements is true about a bit-slice processor? [Question ID = 10925] It can be cascaded to get any desired word length processor 2. Its speed of operation is independent of the word length configured 3. It does not contain any equivalent to a program counter in a normal microprocessor 4. It contains only the data path of a normal CPU 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 [Question ID = 10927] 31) Microprogrammed control unit \_\_\_\_\_ 1. is faster than a hard wired control unit 2. 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

Correct Answer :-

3. check the device for readiness and complete the data transfer

4. check for the readiness of other devices while data is being transferred



· check the device for readiness and complete the data transfer

## 34) Start and stop bits do not contain information but are used in serial communication for \_\_\_\_\_\_ [Question ID = 10930]

- 1. Error detection
- 2. Error correction
- 3. Synchronization
- 4. Slowing down the communication

#### Correct Answer :-

Synchronization

**35)** What will be the output of the following C code?

```
# include <stdio.h>
# define x 5+2
int main ( )
{
    int i;
    i = x * x* x;
    printf("%d", i);
    return 0;
}
```

## [Question ID = 10931]

- 1.343
- 2.27
- 3. 132
- 4. 160

### Correct Answer :-

27

**36)** What does the following function print?

```
int func (int i)
{
            if (i % 2) return 0;
            else return 1;
}
Int main( )
{
            int i=3;
            i = func(i);
            i= func(i);
            printf("%d", i);
}
```



## [Question ID = 10932] 1.3 2.1 3.0 4. 2 Correct Answer :-• 1 37) 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

- Correct Answer :-
- 1011

4. 1110

- 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

What is the missing statement in the following function which copies string x into string y?

## [Question ID = 10936]

```
1. x = y
2. *x ++=*y++
```

- 3. (\*x)++=(\*y)++
- 4. Error

#### Correct Answer :-

• \*x ++=\*y++



**41)** What is the output of the following code? int main() static int num=8; printf("%d", num=num-2); if (num!=0) main(): [Question ID = 10937] 1.8642 2. Infinite Loop 3.6420 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 (????)

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

puts("end of file reached");

4. the longest path in the graph



Correct Answer :-
<ul> <li>the shortest path from W to every vertex in the graph</li> </ul>
44) If we use merge sort to sort an array with n elements, what is the worst case time required for the sort? [Question ID = 10944]
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 circular queue, array index start with 0, front point to the first element in the queue, and rear point to the last element in the queue. Which of the following condition specify that circular queue is FULL?
index start with 0, front point to the first element in the queue, and rear point to the last element in
index start with 0, front point to the first element in the queue, and rear point to the last element in the queue. Which of the following condition specify that circular queue is FULL?
index start with 0, front point to the first element in the queue, and rear point to the last element in the queue. Which of the following condition specify that circular queue is FULL?  [Question ID = 10945]
index start with 0, front point to the first element in the queue, and rear point to the last element in the queue. Which of the following condition specify that circular queue is FULL?  [Question ID = 10945]  1. front = rear = -1
index start with 0, front point to the first element in the queue, and rear point to the last element in 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

- front = (rear+1) % MAX\_SIZE
- 46) If the sequence of operations push(1), push(2), pop, push(2), pop, push(2), pop push(2), pop are performed on a stack, the sequence of popped out values are \_\_\_\_\_\_\_

## [Question ID = 10946]

- $1.\; 2\; 2\; 1\; 2\; 2$
- 2.22112
- 3.21221
- 4.21222

## Correct Answer :-

• 22112

47) In Internet protocol stack, when data is sent from device A to device B, the 5th layer to receive data at B is \_\_\_\_\_



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

that the token is lost is \_\_\_\_\_\_.



1. 28 to 30 2. 20 to 22	
2. 20 to 22	
3. 0 to 2	
4. 31 to 33	
Correct Ansv	ver :-
• 28 to 30	
	s B network on the Internet has a subnet mask of 255.255.248.0, what is the maximusts per subnet? [Question ID = 10952]
1. 1022	
2. 1023	
3. 2046	
4. 2048	
Correct Ansv	ver:-
• 2046	
3. reentrant co	ode
3. reentrant co 4. reducible co	ode ode
<ol> <li>reusable cod</li> <li>reentrant cod</li> <li>reducible cod</li> </ol> Correct Answ	ode ode ver :-
3. reentrant co 4. reducible co <b>Correct Ansv</b>	ode ode ver :-
<ul><li>3. reentrant co</li><li>4. reducible co</li><li>Correct Ansv</li><li>reentrant co</li><li>54) Dijkstra</li></ul>	ode  ver :- ode  's bankers algorithm in an operating system solves the problem of
<ul><li>3. reentrant co</li><li>4. reducible co</li><li>Correct Ansv</li><li>reentrant co</li><li>54) Dijkstra</li><li>[Question ID</li></ul>	de  ver :-  de  's bankers algorithm in an operating system solves the problem of  = 10954]
<ul> <li>3. reentrant co</li> <li>4. reducible co</li> <li>Correct Ansv</li> <li>reentrant co</li> <li>54) Dijkstra</li> <li>[Question ID</li> <li>1. deadlock ave</li> </ul>	ode  ver :- ode  's bankers algorithm in an operating system solves the problem of  = 10954]  oidance
<ul> <li>3. reentrant co</li> <li>4. reducible co</li> <li>Correct Ansv</li> <li>reentrant co</li> <li>54) Dijkstra</li> <li>[Question ID</li> <li>1. deadlock avo</li> <li>2. deadlock de</li> </ul>	de  ver :- ode  's bankers algorithm in an operating system solves the problem of  = 10954]  oidance tection
3. reentrant co 4. reducible co Correct Ansv reentrant co 54) Dijkstra [Question ID 1. deadlock ave 2. deadlock de 3. mutual exclu	wer:- ode  's bankers algorithm in an operating system solves the problem of = 10954]  oidance tection usion
<ul><li>3. reentrant co</li><li>4. reducible co</li><li>Correct Ansv</li><li>reentrant co</li></ul>	wer:- ode  's bankers algorithm in an operating system solves the problem of = 10954]  oidance tection usion ement

**3** 

4. -3



1. deadlock			
2. critical section			
3. race condition			
4. memory leak			
Correct Answer :-			
<ul> <li>race condition</li> </ul>			
57) During context s	witching which of the follow	ing need not be sa	ved? [Question ID = 10957]
1. General purpose regi	sters		
2. Program counter			
3. Stack pointer			
4. Translation-look-aside	e buffer		
Correct Answer :-			
<ul> <li>Translation-look-asid</li> </ul>	le buffer		
EQ) The reat director	ry of a file system should be	nlacod	[Ouestion ID = 10958]
36) The root director	ry or a file system should be	piaceu	[Question ID = 10936]
1. At a fixed address in			
2. At a fixed location in t			
3. At a fixed location on	59		
4. Anywhere on the syst	tem disk		
Correct Answer :-			
<ul> <li>At a fixed location in</li> </ul>	the file system		
At a fixed location in	95		
<ul> <li>At a fixed location in</li> <li>59) Using a larger bl</li> </ul>		ds to	
<ul> <li>At a fixed location in</li> <li>59) Using a larger bl</li> <li>Better disk throughput</li> </ul>	lock size in a file system lead	<b>ds to</b>	
<ul> <li>At a fixed location in</li> <li>59) Using a larger bl</li> <li>Better disk throughpu</li> <li>Better disk throughpu</li> </ul>	lock size in a file system lead ut but poorer disk space utilizatio	<b>ds to</b>	
<ul> <li>At a fixed location in</li> <li>59) Using a larger bl</li> <li>Better disk throughpu</li> <li>Better disk throughpu</li> <li>Poorer disk throughpu</li> </ul>	lock size in a file system lead ut but poorer disk space utilizatio ut and better disk space utilizatio	<b>ds to</b>	
<ul> <li>At a fixed location in</li> <li>59) Using a larger bl</li> <li>1. Better disk throughpu</li> <li>2. Better disk throughpu</li> <li>3. Poorer disk throughpu</li> <li>4. Poorer disk throughpu</li> </ul>	lock size in a file system lead ut but poorer disk space utilization ut and better disk space utilization ut but better disk space utilization	<b>ds to</b>	
59) Using a larger bl  1. Better disk throughpu  2. Better disk throughpu  3. Poorer disk throughpu  4. Poorer disk throughpu  Correct Answer:	lock size in a file system lead ut but poorer disk space utilization ut and better disk space utilization ut but better disk space utilization ut and poorer disk space utilization	ds to	[Question ID = 10959]
<ul> <li>At a fixed location in</li> <li>59) Using a larger bl</li> <li>1. Better disk throughpu</li> <li>2. Better disk throughpu</li> <li>3. Poorer disk throughpu</li> <li>4. Poorer disk throughpu</li> <li>Correct Answer:</li> <li>Better disk throughpu</li> </ul>	lock size in a file system lead at but poorer disk space utilization at and better disk space utilization at but better disk space utilization at and poorer disk space utilization	n n n n on	[Question ID = 10959]
<ul> <li>At a fixed location in 59) Using a larger bl</li> <li>Better disk throughpu</li> <li>Better disk throughpu</li> <li>Poorer disk throughpu</li> <li>Poorer disk throughpu</li> <li>Better disk throughpu</li> <li>Better disk throughpu</li> </ul>	lock size in a file system lead  It but poorer disk space utilization  It and better disk space utilization  It but better disk space utilization  It and poorer disk space utilization  It but poorer disk space utilization  It but poorer disk space utilization  It but poorer disk space utilization	n n n n on	[Question ID = 10959]
<ul> <li>At a fixed location in 59) Using a larger bl</li> <li>Better disk throughpu</li> <li>Better disk throughpu</li> <li>Poorer disk throughpu</li> <li>Poorer disk throughpu</li> <li>Poorer disk throughpu</li> <li>Better disk throughpu</li> <li>Better disk throughpu</li> <li>In which one of fourier</li> <li>[Question ID = 10960]</li> </ul>	lock size in a file system lead  It but poorer disk space utilization  It and better disk space utilization  It but better disk space utilization  It and poorer disk space utilization  It but poorer disk space utilization  It but poorer disk space utilization  It but poorer disk space utilization	n n n n on	[Question ID = 10959]
<ul> <li>At a fixed location in 59) Using a larger bl</li> <li>Better disk throughpu</li> <li>Better disk throughpu</li> <li>Poorer disk throughpu</li> <li>Poorer disk throughpu</li> <li>Poorer disk throughpu</li> <li>Correct Answer:-</li> <li>Better disk throughpu</li> <li>Better disk throughpu</li> <li>On In which one of formula</li> <li>Optimal</li> </ul>	lock size in a file system lead  It but poorer disk space utilization  It and better disk space utilization  It but better disk space utilization  It and poorer disk space utilization  It but poorer disk space utilization  It but poorer disk space utilization  It but poorer disk space utilization	n n n n on	[Question ID = 10959]
<ul> <li>At a fixed location in</li> <li>59) Using a larger bl</li> <li>1. Better disk throughpu</li> <li>2. Better disk throughpu</li> <li>3. Poorer disk throughpu</li> <li>4. Poorer disk throughpu</li> <li>Correct Answer:</li> <li>Better disk throughpu</li> </ul>	lock size in a file system lead  It but poorer disk space utilization  It and better disk space utilization  It but better disk space utilization  It and poorer disk space utilization  It but poorer disk space utilization  It but poorer disk space utilization  It but poorer disk space utilization	n n n n on	[Question ID = 10959]



	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
	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]
	<ol> <li>The disk manufacturer</li> <li>Disk controller</li> <li>The operating system</li> <li>The user</li> </ol>
	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 = $10964$ ]
	<ol> <li>Bit vector</li> <li>Linked list</li> </ol>
	3. Grouping 4. Counting
	<ul> <li>3. Grouping</li> <li>4. Counting</li> <li>Correct Answer:-</li> <li>Bit vector</li> </ul>
	3. Grouping 4. Counting  Correct Answer:-
	<ul> <li>3. Grouping</li> <li>4. Counting</li> <li>Correct Answer:-</li> <li>Bit vector</li> <li>65) Which of the following disk scheduling algorithm gives the best throughput? [Question ID =</li> </ul>



• SSTF		
66) In UNIX traditional scheduling	_[Question ID = 10966]	
<ol> <li>a CPU-bound process is given higher priority than an I/2. an I/O-bound process is given higher priority than a CP</li> <li>Both CPU-bound and I/O-bound processes are given ed</li> <li>It depends on the current load on the system</li> </ol>	U-bound process	
Correct Answer :-  • an I/O-bound process is given higher priority than a CF	PU-bound process	
67) Which of the following clause is needed to sor = 10967]	t the values of a particular	column? [Question ID
<ol> <li>Having</li> <li>Order by</li> <li>Group by</li> <li>Sort by</li> </ol>		
Correct Answer :-  • Order by		
68) The column of a table in relational model is re 10968]	ferred to as	[Question ID =
<ol> <li>Tuple</li> <li>Attribute</li> <li>Entity</li> <li>Degree</li> </ol>		
Correct Answer :-  • Attribute		
69) CREATE TABLE is an example for		
1. DDL 2. DCL 3. DML 4. DTL		
Correct Answer :- DDL		
70) To modify the structure of a table the followin 10970]	2012	
1. MODIFY 2. ALTER TABLE		

- 3. UPDATE
- 4. CORRECT



<ul> <li>ALTER TABLE</li> </ul>
71) In which normal form every non-key attribute is non-transitively depending on key attribute? [Question ID = 10971]
<ol> <li>First</li> <li>second</li> <li>Third</li> <li>Fourth</li> </ol>
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 2. Secondary index 3. 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

## 74)

3. Revoke

4. Compile

Commit

Correct Answer :-

Which of the following is true about the static member variable in C++?

- It is initialized to zero when the first object of its class is created. Other initialization is also permitted.
- ii. It is visible only within the class, but its lifetime is the entire program.

## [Question ID = 10975]

Correct Answer :-

- 1. i-True, ii-True
- 2. i-False, ii-True
- 3. i-True, ii-False
- 4. i-False, ii-False



## 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

What is the output of this program?

## [Question ID = 10978]

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



#### 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();</pre>
```

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]

```
    int a[] = {"1", "2", "3", "4"};
    int a[] = {1, 2, 3, 4};
    int a[] = (1, 2, 3, 4);
    int a[][] = {1, 2, 3, 4};
```



85) Applet n [Question ID	nethod getParameter(String paramName), in J = 10986]	lava language is used for
1. Getting the	parameter value as a String	
2. Getting the	environment variable	
3. Getting the	program argument	
4. Getting the	parameter value as a number	
Correct Ans	wer:-	
<ul> <li>Getting the</li> </ul>	parameter value as a String	
86) Synchro	nized method of a class, in Java language, ma	kes [Question ID = 109
	s synchronized with other systems	
	syncronized with other methods	
	work as an entry method of a monitor	
4. the class is	synchronized with the program	
Correct Ansv	wer:-	
<ul><li>the method</li><li>87) Member</li></ul>	work as an entry method of a monitor  method isAlive() of Thread class of Java lang	uage, is used for
87) Member [Question ID] 1. testing whe 2. testing whe 3. testing for v 4. testing whe Correct Answer	work as an entry method of a monitor  method isAlive() of Thread class of Java lang = 10988]  ther the process is alive ther the thread is currently running whether the process is currently running ther the thread is active	uage, is used for
• the method  87) Member [Question ID]  1. testing whe 2. testing whe 3. testing for v 4. testing whe  Correct Answ • testing whe	work as an entry method of a monitor  method isAlive() of Thread class of Java lang  = 10988]  ther the process is alive ther the thread is currently running whether the process is currently running ther the thread is active  wer:- ther the thread is active	uage, is used for
• the method  87) Member [Question ID]  1. testing whe 2. testing whe 3. testing for v 4. testing whe  Correct Answ • testing whe	work as an entry method of a monitor  method isAlive() of Thread class of Java lang = 10988]  ther the process is alive ther the thread is currently running whether the process is currently running ther the thread is active  wer:- ther the thread is active	uage, is used for
• the method  87) Member [Question ID]  1. testing whe 2. testing whe 3. testing for v 4. testing whe  Correct Ansv • testing whe  88) The key  1. throwing an	work as an entry method of a monitor  method isAlive() of Thread class of Java lang = 10988]  ther the process is alive ther the thread is currently running whether the process is currently running ther the thread is active  wer:- ther the thread is active  word 'throws' is used for [Quest exception	uage, is used for
• the method  87) Member [Question ID]  1. testing whe 2. testing whe 3. testing for v 4. testing whe  Correct Ansv • testing whe  88) The key  1. throwing an 2. throwing an	work as an entry method of a monitor  method isAlive() of Thread class of Java lang = 10988]  ther the process is alive ther the thread is currently running whether the process is currently running ther the thread is active  ver :- ther the thread is active  word 'throws' is used for [Quest exception object	uage, is used forstion ID = 10989]
• the method  87) Member [Question ID]  1. testing whe 2. testing whe 3. testing for v 4. testing whe  Correct Ansv • testing whe  1. throwing an 2. throwing an 3. indicates the	work as an entry method of a monitor  method isAlive() of Thread class of Java lang = 10988]  ther the process is alive ther the thread is currently running whether the process is currently running ther the thread is active  wer:- ther the thread is active  word 'throws' is used for [Quest exception object at the specified exceptions may be raised in the corre	uage, is used forstion ID = 10989]
• the method  87) Member [Question ID]  1. testing whe 2. testing whe 3. testing for v 4. testing whe  Correct Answ • testing whe  1. throwing an 2. throwing an 3. indicates the	work as an entry method of a monitor  method isAlive() of Thread class of Java lang = 10988]  ther the process is alive ther the thread is currently running whether the process is currently running ther the thread is active  ver :- ther the thread is active  word 'throws' is used for [Quest exception object	uage, is used forstion ID = 10989]
• the method  87) Member [Question ID]  1. testing whe 2. testing whe 3. testing for v 4. testing whe  Correct Answ • testing whe  1. throwing an 2. throwing an 3. indicates the	work as an entry method of a monitor  method isAlive() of Thread class of Java lang = 10988]  ther the process is alive ther the thread is currently running whether the process is currently running ther the thread is active  ver:- ther the thread is active  word 'throws' is used for [Quest exception object at the specified exceptions may be raised in the corre of exceptions explicitly	uage, is used forstion ID = 10989]

- 1. an index outside the limits of array is used
- 2. a non-integer is used as an index
- 3. a non-array is accessed using array indexing



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? [Quest
= 10991]	
1. A member with no access modifier can be accessed in a non-su	bclass in the same package
2. A member with protected modifier cannot be accessed in a subo	class of a different package
3. A member with protected modifier can be accessed in a non-sul	bclass of the same package
4. A member with private modifier can be accessed only in its own	n class
Correct Answer :-	
A member with protected modifier cannot be accessed in a subcontrol of the control of the c	class 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	
3. it is a constant method	
4. it cannot be overloaded	
Correct Answer :-	
it cannot be overloaded	
<ul><li>92) The '&gt;&gt;&gt;' operator in Java language is used for</li><li>1. Rotating right signed</li><li>2. Shifting right signed</li></ul>	[Question 15 = 10555]
<ul><li>2. Shifting right signed</li><li>3. Rotating right unsigned</li></ul>	
4. Shifting right unsigned	
Correct Answer :-	
Shifting right unsigned	
93) Which one of the following statements is true in Java	language? [Question ID = 10994]
1. Simple variables can be passed either by value or by reference	
2. Objects can be passed either by value or by reference	
3. Objects can be passed only by reference	
4. Simple variables can be passed only by reference	
Correct Answer :-	
Objects can be passed only by reference	
94) Which of the following is not a basic HTML document	structure? [Question ID = 10995]
1. Title	
2. Body	
21 3047	

4. Footer



Correct Answer :-
<ul> <li>Footer</li> </ul>
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 :-
<ul> <li>Face</li> </ul>
97) Thefilter applies transparency effects dynamically, without using a graphics editor to
57) The meet approved an operating any anatom any attended as a graphic care.
hard code transparency into the image [Question ID = 10000]
hard-code transparency into the image. [Question ID = 10999]
1. Flip
1. Flip 2. Blur
1. Flip
1. Flip 2. Blur
<ol> <li>Flip</li> <li>Blur</li> <li>Shadow</li> </ol>
1. Flip 2. Blur 3. Shadow 4. Chroma
1. Flip 2. Blur 3. Shadow 4. Chroma  Correct Answer:-
1. Flip 2. Blur 3. Shadow 4. Chroma
1. Flip 2. Blur 3. Shadow 4. Chroma  Correct Answer:-
1. Flip 2. Blur 3. Shadow 4. Chroma  Correct Answer:-
<ol> <li>Flip</li> <li>Blur</li> <li>Shadow</li> <li>Chroma</li> </ol> Correct Answer:- <ul> <li>Chroma</li> </ul>
<ol> <li>Flip</li> <li>Blur</li> <li>Shadow</li> <li>Chroma</li> </ol> Correct Answer:- <ul> <li>Chroma</li> </ul>
1. Flip 2. Blur 3. Shadow 4. Chroma  Correct Answer:-
<ol> <li>Flip</li> <li>Blur</li> <li>Shadow</li> <li>Chroma</li> </ol> Correct Answer:- <ul> <li>Chroma</li> </ul> 98) What is the result of the following command: \$a = 1 + "apple"; ?
<ol> <li>Flip</li> <li>Blur</li> <li>Shadow</li> <li>Chroma</li> </ol> Correct Answer:- <ul> <li>Chroma</li> </ul>
<ol> <li>Flip</li> <li>Blur</li> <li>Shadow</li> <li>Chroma</li> <li>Chroma</li> <li>Chroma</li> <li>What is the result of the following command: \$a = 1 + "apple"; ?</li> <li>[Question ID = 11000]</li> </ol>
<ol> <li>Flip</li> <li>Blur</li> <li>Shadow</li> <li>Chroma</li> <li>Chroma</li> <li>Chroma</li> <li>What is the result of the following command: \$a = 1 + "apple"; ?</li> <li>[Question ID = 11000]</li> <li>\$a is assigned the value "1apple."</li> </ol>
<ol> <li>Flip</li> <li>Blur</li> <li>Shadow</li> <li>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>\$a is assigned the value "lapple."</li> <li>\$a is assigned the value 1</li> </ol>
<ol> <li>Flip</li> <li>Blur</li> <li>Shadow</li> <li>Chroma</li> <li>Chroma</li> <li>Chroma</li> <li>What is the result of the following command: \$a = 1 + "apple"; ?</li> <li>[Question ID = 11000]</li> <li>\$a is assigned the value "1apple."</li> </ol>
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2. Move()



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

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=Sy x=8x";

## [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

