Question Paper Preview

Question Paper Name: Computer Science and Engineering 30th April 2019 Shift1

Subject Name: Computer Science and Engineering

Share Answer Key With Delivery Yes

Engine:

Actual Answer Key: Yes

Mathematics

Number of Questions:50Display Number Panel:YesGroup All Questions:No

Question Number: 1 Question Id: 67809438457 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The adjoint of
$$A = \begin{pmatrix} 1 & 4 & -2 \\ -2 & -5 & 4 \\ 1 & -2 & 1 \end{pmatrix}$$
 is

Options:

$$\begin{pmatrix} 1 & 4 & -2 \\ -2 & -5 & 4 \\ 1 & -2 & 1 \end{pmatrix}$$

 $\begin{pmatrix} 1 & 4 & -2 \\ -2 & -5 & 4 \\ 1 & -2 & 1 \end{pmatrix}$

$$\begin{pmatrix} 3 & 0 & 6 \\ 6 & 3 & 0 \\ 9 & 6 & 3 \end{pmatrix}$$

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

Question Number: 2 Question Id: 67809438458 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If A is a square matrix of order 3 then (adj A).A=

Options:

Question Number : 3 Question Id : 67809438459 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The inverse of $A = \begin{pmatrix} 2 & 3 \\ 2 & 5 \end{pmatrix}$ is

Options:

$$\begin{pmatrix} 5/4 & -3/4 \\ 1/2 & 1/2 \end{pmatrix}$$

$$\begin{pmatrix} 5/4 & 3/4 \\ -1/2 & 1/2 \end{pmatrix}$$

$$\begin{pmatrix} 5/_{4} & -5/_{4} \\ -1/_{2} & 1/_{2} \end{pmatrix}$$

$$\begin{pmatrix} 5/_{4} & -3/_{4} \\ -1/_{2} & 1/_{2} \end{pmatrix}$$

Question Number: 4 Question Id: 67809438460 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If $A = \begin{pmatrix} 3 & 2 & x \\ 4 & 1 & -1 \\ 0 & 3 & 4 \end{pmatrix}$ is a singular matrix then the value of x is

$$\frac{-11}{12}$$

 $Question\ Number: S\ Guestion\ Id: 67809438461\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

If
$$A = \begin{pmatrix} 3 & 1 \\ -1 & 2 \end{pmatrix}$$
 then $A^2 - 5A + 7I$ is

Options:

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

$$\begin{pmatrix} 0 & 3 \\ 2 & 0 \end{pmatrix}$$

$$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$$

$$\begin{pmatrix} 2 & 3 \\ 2 & 5 \end{pmatrix}$$

Question Number : 6 Question Id : 67809438462 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Resolve $\frac{3x+7}{(x-1)(x-2)}$ into partial fractions

$$\frac{12}{(x-2)} - \frac{10}{(x-1)}$$

$$\frac{13}{(x-2)} - \frac{10}{(x-1)}$$

$$\frac{13}{(x-5)} - \frac{10}{(x-1)}$$

$$\frac{13}{(x-2)} - \frac{10}{(x-7)}$$

Question Number: 7 Question Id: 67809438463 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Resolve $\frac{5x^2+1}{x^2-1}$ into partial fractions

Options:

$$\frac{12}{(x-2)} - \frac{10}{(x-1)}$$

$$\frac{13}{(x-2)} - \frac{10}{(x-1)}$$

$$\frac{13}{(x-5)} - \frac{10}{(x-1)}$$

$$\frac{2}{(x-1)} + \frac{3x+1}{x^2+x+1}$$

Question Number: 8 Question Id: 67809438464 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If $tan^2\theta + sec\theta = 5$ then the value of $cos\theta$ is

Options:

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

$$\frac{-11}{12}$$
 or $\frac{1}{2}$

$$^{13}/_{12}$$
 or $^{-1}/_{3}$

$$\frac{5}{4}$$
 or $\frac{1}{2}$

Question Number: 9 Question Id: 67809438465 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The value of $16sin^3\theta + 8cos^3\theta$ is

2 -6

4

Question Number: 10 Question Id: 67809438466 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If $sin\alpha = \frac{15}{17}$, $cos\beta = \frac{12}{13}$ then the value of $sin(\alpha + \beta)$ is

Options:

$$\frac{-121}{152}$$

Question Number: 11 Question Id: 67809438467 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The value of cos20°cos40°cos60°cos80° is

Options:

$$\frac{13}{12}$$

Question Number: 12 Question Id: 67809438468 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The value of $\frac{\cos 17^0 + \sin 17^0}{\cos 17^0 - \sin 17^0}$ is

cos20°
2. tan65°
3. tan60°
4. tan62°
Question Number: 13 Question Id: 67809438469 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical The value of $sin\frac{\pi}{5}sin\frac{2\pi}{5}sin\frac{3\pi}{5}sin\frac{4\pi}{5}=$
Options: $\frac{4}{1.}$
2. ⁵ / ₁₆
<u>-5</u> 3. 16
4. 15
Question Number: 14 Question Id: 67809438470 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
If $tan^{-1}x + tan^{-1}y + tan^{-1}z = \frac{\pi}{2}$ then the value of $xy + yz + zx$ is
Options: 11
_{2.} 3
3. 5

 $Question\ Number: 15\ Question\ Id: 67809438471\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

The general solution of $4\cos^2 x - 3 = 0$ is

Options:

4. 1

$$2n\pi \pm \frac{\pi}{6}$$

$$2n\pi \pm \frac{7\pi}{6}$$

$$3n\pi \pm \frac{5\pi}{6}$$

$$2n\pi \pm \frac{11\pi}{6}$$

Question Number: 16 Question Id: 67809438472 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The modulus of a complex number $\sqrt{3} + i$ is

Options:

- -2 1
- 2 3
- 3 2
- 4. 5

Question Number: 17 Question Id: 67809438473 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The value of $(a-b)^2 cos^2 \left(\frac{c}{2}\right) + (a+b)^2 sin^2 \left(\frac{c}{2}\right)$ is

Options:

- , C3
- , 0
- 3 C5
- C^2

Question Number: 18 Question Id: 67809438474 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If $x + \frac{1}{x} = 2\cos\theta$ then the value of $x^n + \frac{1}{x^n}$ is

- $2\cos n\theta$
- $_2$ -2 cos $n\theta$
- $3 \cos \theta$
- $4.2\sin n\theta$

Question Number: 19 Question Id: 67809438475 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The value of $2tan^{-1}\left(\frac{1}{3}\right) + tan^{-1}\left(\frac{1}{7}\right)$ is

Options:

- $\frac{\pi}{4}$
- $\frac{\pi}{4}$
- π 3 6
- $\frac{\pi}{3}$

Question Number: 20 Question Id: 67809438476 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The length of the major axis of the ellipse: $4x^2 + 3y^2 = 48$ is

Options:

- 1. 10
- 11
- 3. 12
- 4. 13

Question Number: 21 Question Id: 67809438477 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The Centre of the ellipse: $9x^2 + 25y^2 - 18x + 100y - 116 = 0$ is

- (2,-1)
- (-1,-2)
- (1,-2)
- 4 (1,2)

Question Number: 22 Question Id: 67809438478 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The equation of the parabola with vertex (2,-1) and focus (2,-3) is

Options :

$$x^2 - 4x + 8y + 12 = 0$$

$$\int_{2}^{2} x^2 - 4x - 8y - 12 = 0$$

$$x^2 + 4x - 8y - 12 = 0$$

$$x^2 + 5x - 8y - 11 = 0$$

Question Number: 23 Question Id: 67809438479 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The length of the latus rectum of the hyperbola: $\frac{x^2}{9} - \frac{y^2}{16} = 1$ is

Options:

- 9 units
- 5 units
- 3 6 units
- 4 13 units

Question Number: 24 Question Id: 67809438480 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If the length of latus rectum is $\frac{9}{2}$ and the distance between its foci is 10 then the equation of hyperbola is Options:

$$\frac{x^2}{16} + \frac{y^2}{9} = 1$$

$$\frac{x^2}{18} - \frac{y^2}{9} = 1$$

$$\frac{x^2}{16} - \frac{y^2}{6} = 1$$

$$\int_{4}^{\frac{x^2}{16}} - \frac{y^2}{9} = 1$$

Question Number : 25 Question Id : 67809438481 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The equation of the parabola with focus at (-3,2) and vertex (-2,2) is

Options:

$$\int_{1}^{2} x^{2} - 4x + 8y + 12 = 0$$

$$x^2 + 5x - 8y - 11 = 0$$

$$y^2 + 4x - 4y + 12 = 0$$

$$x^2 - 4x - 8y - 12 = 0$$

Question Number : 26 Question Id : 67809438482 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If $y = \frac{a+bx}{b-ax}$ then the derivative of y with respect to x is

$$\frac{a^2+b^2}{(b-ax)^2}$$

$$\frac{a^2+b^2}{(b+ax)^2}$$

3.
$$\frac{a^2 - b^2}{(b - ax)^2}$$

$$4. \frac{a+b}{(b-ax)^2}$$

Question Number: 27 Question Id: 67809438483 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If $y = \frac{2+3 \sinh x}{3+2 \sinh x}$ then the derivative of y with respect to x is

Options:

$$\frac{5\cosh x}{(3+2\sinh x)^2}$$

$$\int_{2}^{5 \sinh x} \frac{5 \sinh x}{(3+2 \sinh x)^2}$$

$$\frac{5\sin x}{(3-2\cosh x)^2}$$

$$\frac{\sinh^2 x}{(2-3\sinh x)^2}$$

Question Number: 28 Question Id: 67809438484 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The range of x for which the function $x^3 - 3x^2 - 45x + 2$ is increasing with x is

Options:

$$(-3, -5)$$

Question Number: 29 Question Id: 67809438485 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If u is a homogeneous function of x and y with degree n then $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} =$

$$-nu$$

$$n^2u$$

 $u^2 + u$

Question Number: 30 Question Id: 67809438486 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The angle between the curves $y = x^2 + 3x - 7$ and $y^2 = 2x + 5$ at (2,3) is

Options:

$$\tan \theta = 2$$

$$\sec \theta = 2$$

$$_{3.}\cos\theta=1$$

$$\sin \theta = 3$$

Question Number : 31 Question Id : 67809438487 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The maximum value of the function $2x^3 - 12x^2 + 18x + 5$ is

Options:

- 1 13
- 2. 12
- 3. 10
- 4. 15

Question Number: 32 Question Id: 67809438488 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The three sides of a trapezium are equal each being 6" long then the area of the trapezium when it is maximum is

- 27 square units
- 33 square units
- $27\sqrt{3}$ square units
- $_{4}$ 29 $\sqrt{3}$ square units

Question Number: 33 Question Id: 67809438489 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The interval in which the function $f(x) = x^2 \log x$ is an increasing function is

Options:

$$(1 , e^{-1/2})$$

$$(2, e^{-1/2})$$

$$(0 , e^{1/2})$$

$$(0, e^{-1/2})$$

Question Number: 34 Question Id: 67809438490 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The stationary points and the corresponding values of the function $f(x) = x^3 - 9x^2 + 15x - 1$ is

Options:

- 1.6,-26
- 3,-26
- 3, 6,26
- 4. -6,-26

Question Number : 35 Question Id : 67809438491 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If
$$u = \log\left(\frac{x^2 + y^2}{x + y}\right)$$
 then $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} =$

- 1 2
- 2. 4
- 3. ⁵
- 1

Question Number: 36 Question Id: 67809438492 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The value of $\int \log x \, dx$ is

Options:

$$x \log x + x + c$$

$$\int_{2}^{\infty} x^2 \log x - x + c$$

$$3 \cdot x \log x - x + c$$

$$x\log x - \frac{x^2}{2} + c$$

Question Number: 37 Question Id: 67809438493 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The value of $\lim_{n\to\infty} \left[\frac{1}{n+1} + \frac{1}{n+2} + \dots + \frac{1}{n+n} \right]$ is

Options:

- log 2
- log 3
- -log 2
- $\log n$

Question Number: 38 Question Id: 67809438494 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The value of $\int \frac{\cos \sqrt{x}}{\sqrt{x}} dx$ is

$$2\sin\sqrt{x} + c$$

$$\int_{2}^{2} 3 \sin \sqrt{x} + c$$

$$3 2 \sin x + c$$

$$\sin \sqrt{x} + c$$

Question Number : 39 Question Id : 67809438495 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The area enclosed between the curve $y^2 = 4ax$ and the line x = 2y is

Options:

$$\frac{64}{5}$$
 sq. units

$$\frac{64}{3}$$
 sq. units

$$\frac{65}{4}$$
 sq. units

$$\frac{63}{4}$$
 sq. units

Question Number : 40 Question Id : 67809438496 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The value of $\int_{1}^{\frac{\pi}{2}} \sin^2 x \, dx$ is

Options:

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

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

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

Question Number: 41 Question Id: 67809438497 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The value of $\int_{1}^{4} \left(\sqrt{x} + \frac{1}{\sqrt{x}} \right) dx$ is



Question Number: 42 Question Id: 67809438498 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The value of $\int_0^{\pi/4} \sqrt{1 + \sin 2x} \ dx =$

Options:

- 1. -1
- 2 -3
- 3 3
- ₄ 1

Question Number: 43 Question Id: 67809438499 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The value of $\int_0^{\pi/2} \frac{\sin x}{1 + \cos^2 x} dx =$

Options:

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

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

$$_{3}$$
 $\pi/_{3}$

$$\pi/2$$

Question Number: 44 Question Id: 67809438500 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The particular integral of $(D^2 + 5D + 6)y = e^x$ is

Options:

$$\frac{-e^{-x}}{12}$$

$$\frac{e^{2x}}{12}$$

$$\frac{e^x}{6}$$

Question Number : 45 Question Id : 67809438501 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Form the differential equation by eliminating the arbitrary constant a from $ay^2 = x^3$

Options:

$$\frac{dy}{dx} = \frac{3y}{2x}$$

$$\frac{dy}{dx} = \frac{2x}{3y}$$

$$\frac{dy}{dx} = \frac{x}{y}$$

$$\frac{dy}{dx} = \frac{2y}{x}$$

Question Number : 46 Question Id : 67809438502 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The solution of $\frac{dy}{dx} + y = e^{-x}$ is

$$(x+c)e^{-x}$$

$$(x-c)e^x$$

$$(x+c)e^x$$

3.
$$(x+c)e^x$$
4. $(x+c)e^{-2x}$

Question Number: 47 Question Id: 67809438503 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The complementary function of $(D^2 + 3D + 2)y = 8sin5x$ is

Options:

1.
$$c_1e^{-x} + c_2e^{-2x}$$

$$c_1 e^x + c_2 e^{2x}$$

$$c_1 e^{-x} + c_2 e^{2x}$$

$$c_1e^{2x} + c_2e^{3x}$$

Question Number: 48 Question Id: 67809438504 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The solution of exact differential equation $2xy dx + x^2 dy = 0$ is

Options:

$$x^2y^2 = c$$

$$x^2y = c$$

$$x^3y=c$$

$$x^2y^3 = c$$

Question Number: 49 Question Id: 67809438505 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Form the differential equation representing the family of curves $x^2 = 4ay$, where a is any arbitrary constant

$$x\frac{dy}{dx} - 2y = 0$$

$$x\frac{dy}{dx} + 2y = 0$$

$$x\frac{dy}{dx} - 6y = 0$$

$$\chi \frac{dy}{dx} - y = 0$$

Question Number : 50 Question Id : 67809438506 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The solution of $\frac{dy}{dx} + y \cot x = \cos x$ is

Options:

$$y\sin x = \frac{-\cos 2x}{4} + c$$

$$y\sin x = \frac{\cos 2x}{4} + c$$

$$y\sin x = \frac{-\cos 5x}{4} + c$$

$$y\cos x = \frac{-\cos 2x}{4} + c$$

Physics

Number of Questions: 25
Display Number Panel: Yes
Group All Questions: No

Question Number: 51 Question Id: 67809438507 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In the equation $\frac{\alpha}{t^2} = Fv + \frac{\beta}{x^2}$ the dimensional formula for $[\alpha]$, $[\beta]$ is (here t = time,

F= force, v = velocity, x = distance)

Options:

$$MLT^{-1}$$
, MLT^{-3}

$$_2$$
 ML^2T , ML^4T^2

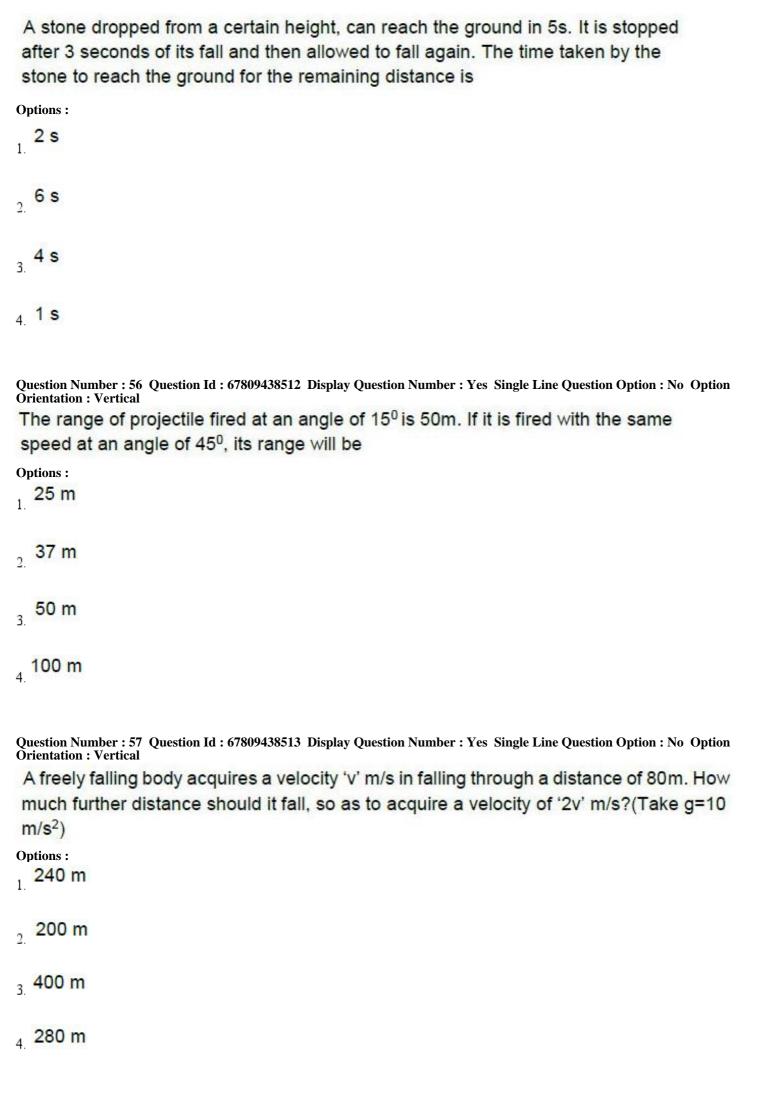
$$ML^2T^{-1}$$
, ML^4T^{-3}

$$_{4}$$
 $ML^{3}T^{-1}$, MLT^{-3}

Question Number: 52 Question Id: 67809438508 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following quantities has not been expressed in proper units?

Young's modulus=N/m ²
Surface tension=N/m
Pressure = N/m ²
Energy=kg m/s
Question Number: 53 Question Id: 67809438509 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Three vectors A, B and C satisfy the relation A.B=0 and A.C=0. The vector A is parallel to Options: 1. B
2. C
3. B.C
4. BxC
Question Number: 54 Question Id: 67809438510 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical If three vectors A, B and C are 12, 5 and 13 in magnitude such that C=A+B, then the angle between A and B is Options: 1. 600
2. 90 ⁰
3. 120 ⁰
4. 30 ⁰
Question Number : 55 Question Id : 67809438511 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical



Question Number: 58 Question Id: 67809438514 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** A block is projected along a rough horizontal road with a speed of 10 m/s. If the coefficient of kinetic friction is 0.10, how far will it travel before coming to rest? **Options:** ₁ 50 m ₂ 60 m ₃ 40 m ₄ 10 m Question Number: 59 Question Id: 67809438515 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** What force is required to push a 200 N body up a 300 smooth incline with an acceleration of 2 m/s²? The force is to be applied along the plane is (Take g=10 m/s²) **Options:** 40 N ₂ 60 N 3 80 N 4 140 N Question Number: 60 Question Id: 67809438516 Display Question Number: Yes Single Line Question Option: No Option A block of mass 2 kg rests on a rough inclined plane making an angle of 30° with the horizontal. The coefficient of static friction between the block and the plane is 0.7. The frictional force on the block is **Options:** 9.8N 2 0.78 x 9.8 N

3. 9.8 x √3 N

4 0.7 x 9.8√3 N

Question Number: 61 Question Id: 67809438517 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** A man moves on a straight horizontal road with a block of mass 2 kg in his hand. If he covers a distance of 40 m with an acceleration of 0.5 m/s2, the work done by the man on the block during the motion is (Take g=10 m/s²) **Options:** 1 40 J 2 1 J 3. 80 J 4. 20 J Question Number: 62 Question Id: 67809438518 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** In a factory it is desired to lift 2000 kg of metal through a distance of 12 m in 1 minute. The minimum horse power of the engine to be used is **Options:** 1 3.5 2. 5.3 4 5.8 Question Number: 63 Question Id: 67809438519 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** Energy harnessed from flowing water is called ----- energy **Options:** Hydel Solar Tidal 4 Geothermal

Question Number: 64 Question Id: 67809438520 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** When a particle executing simple harmonic motion passes through the mean position, it has **Options:** minimum K.E and maximum P.E. maximum K.E and maximum P.E. maximum K.E and minimum P.E. 4 mimimum K.E. and mimimum P.E. Question Number: 65 Question Id: 67809438521 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** A particle of mass 200 g executes a simple harmonic motion. The restoring force is provided by a spring of spring constant 80 N/m. The time period is **Options:** 0.2 s, 0.41 s 3 0.31 s 4 0.5 s Question Number: 66 Question Id: 67809438522 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** The temperature at which the speed of sound will be double of its value at 0°C is **Options:** 8190 C 2 850°C 919°C

Question Number: 67 Question Id: 67809438523 Display Question Number: Yes Single Line Question Option: No Option

Orientation: Vertical

4 900°C

If the source of sound moves towards an ob	server, then
Options:	
The frequency of the source is increased	

- The velocity of sound in the medium is increased
- The wavelength of sound in the medium towards the observer is decreased
- The amplitude of vibration of the particles is increased.

Question Number: 68 Question Id: 67809438524 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical**

A cinema hall has a volume of 7500 m³. The total absorption in the hall if the reverberation time of 1.5 s is to be maintained is

Options:

- 800 OWU
- 925 OWU
- 3 950 OWU
- 825 OWU

Question Number: 69 Question Id: 67809438525 Display Question Number: Yes Single Line Question Option: No Option

One mole of oxygen is heated at constant pressure starting at 0°C. The heat energy that must be supplied to the gas to double its volume is

Options:

- 2.5 x 273 x R
- ₂ 3.5 x 273 x R
- 3 2.5 x 546 x R
- ₄ 3.5 x 546 x R

Question Number: 70 Question Id: 67809438526 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical**

A vessel contains a gas at a temperature of 27°C and a pressure of 20 atm. If one half of the gas is released and the temperature of the remaining gas is raised by 50°C, the new pressure will be

Options:

- 12.24 atm
- 2 11.67 atm
- 3 13.79 atm
- 4 11 atm

Question Number: 71 Question Id: 67809438527 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical**

The temperature of 5 gm of air is raised from 0°C to 1°C. The increase in the internal energy of air is ($C_v = 0.172 \text{ cal/gm}/{}^{0}\text{ C}$ and $J = 4.18 \times 10^{7} \text{ erg/cal}$)

Options:

- 3.595 x 10⁷ erg
- ₂ 3 x 10⁷ erg
- ₃ 4.5 x 10⁷ erg
- 2.595 x 10⁷ erg

Question Number: 72 Question Id: 67809438528 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical**

In all reversible processes entropy of the system

Options:

- decreases
- ncreases
- remains constant
- 4. remains zero

Question Number: 73 Question Id: 67809438529 Display Question Number: Yes Single Line Question Option: No Option

Orientation: Vertical

If one mole of a monoatomic gas ('Y'= $5/3$) is mixed with one mole of a diatomic gas ('Y'= $7/5$), the value of 'Y' for the mixture is
Options: 1. 1.40
2. 1.50
3. 1.53
4. 3.07
Question Number: 74 Question Id: 67809438530 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Electrons are emitted with zero velocity from a certain metal surface when it is exposed to radiations of wavelength 7000 A ⁰ . The work function of the metal is
Options: 1. 1 eV
2. 1.52 eV
2.52 eV 3.
1.77 eV 4.
Question Number: 75 Question Id: 67809438531 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
A superconducting material exhibits
Options: 1. zero conductivity and complete diamagnetism
zero resistivity and complete paramagnetism
3. infinite conductivity and complete paramagnetism
zero resistivity and complete diamagnetism

Display Number Panel:	Yes
Group All Questions:	No
Question Number: 76 Question Id: 67809438532 Display Quest Orientation: Vertical	ion Number: Yes Single Line Question Option: No Option
The splitting of spectral lines in a strong mag	gnetic field is called
Options:	
1. Stark effect	
Dauli Evalusion Principle	
2. Pauli Exclusion Principle	
Zeeman effect	
4. Aufbau Principle	
Question Number: 77 Question Id: 67809438533 Display Quest Orientation: Vertical	ion Number : Yes Single Line Question Option : No Option
Bohr's model can explain	
Options:	
The spectrum of hydrogen atom only	
2. The spectrum of hydrogen molecule	
The solar spectrum	
3.	
Spectrum of an atom or ion containing one	electron only
Question Number: 78 Question Id: 67809438534 Display Quest	ion Number : Yes Single Line Question Option : No Option
Orientation : Vertical The maximum number of electrons that a d-	
	orbital carr accommodate is
Options:	
2. 6	
_{3.} 10	
J. (%%)	
4. 14	

Question Number: 79 Question Id: 67809438535 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Magnesium Atomic number is 12, which of the following is the electronic configuration

Options:

1 1S2 2S1 2P6 3S2

2 1S2 2S2 2P5 3S2

3 1S2 2S2 2P6 3S2

4 1S2 2S2 2P6 3S13d1

Question Number: 80 Question Id: 67809438536 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

N₂ molecule contains

Options:

- Covalent bond
- 2 Ionic bond
- 3. Hydrogen bond
- Metalic bond

Question Number: 81 Question Id: 67809438537 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

One mole of any of the particles contains

Options:

- 1 6.023X 10⁻²³
- 2 6.022X 10²³
- 3. 60.23X 10²³
- 4. 6.023X 10²⁵

Question Number: 82 Question Id: 67809438538 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The normality of the solution obtained by dissolving 4 gm of NaOH in 1Litre is

1. 1N
_{2.} 0.1N
3. 0.5N
4. 0.02N
Question Number: 83 Question Id: 67809438539 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Molecular weight of H_2SO_4 is
Options : 1. 92
_{2.} 96
_{3.} 98
4. 99
Question Number: 84 Question Id: 67809438540 Display Question Number: Yes Single Line Question Option: No Option
Orientation : Vertical A Lewis acid is a substance which
A Lewis acid is a substance which
A Lewis acid is a substance which Options:
A Lewis acid is a substance which Options: 1. Accept protons
A Lewis acid is a substance which Options: 1. Accept protons 2. Accept a lone pair of electrons
A Lewis acid is a substance which Options: 1. Accept protons 2. Accept a lone pair of electrons Donate protons 4. Donate a lone pair of electrons Question Number: 85 Question Id: 67809438541 Display Question Number: Yes Single Line Question Option: No Option
A Lewis acid is a substance which Options: 1. Accept protons 2. Accept a lone pair of electrons 3. Donate protons 4. Donate a lone pair of electrons Question Number: 85 Question Id: 67809438541 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
A Lewis acid is a substance which Options: 1. Accept protons 2. Accept a lone pair of electrons 3. Donate protons 4. Donate a lone pair of electrons Question Number: 85 Question Id: 67809438541 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical PH of a solution is 9.5, the solution is
A Lewis acid is a substance which Options: 1. Accept protons 2. Accept a lone pair of electrons 3. Donate protons 4. Donate a lone pair of electrons Question Number: 85 Question Id: 67809438541 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
A Lewis acid is a substance which Options: 1. Accept protons 2. Accept a lone pair of electrons 3. Donate protons 4. Donate a lone pair of electrons Question Number: 85 Question Id: 67809438541 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical PH of a solution is 9.5, the solution is Options:

3. Neutral
4. Amphoteric
Question Number: 86 Question Id: 67809438542 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Laws of electrolysis were given by
Options: 1. Ostwald
_{2.} Faraday
3. Arrhenius
4. Volta
Question Number: 87 Question Id: 67809438543 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Common electrolyte used in the salt bridge is Options: NaOH
2. NaCO ₃
3. KCI
4. KOH
Question Number: 88 Question Id: 67809438544 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Standard Reduction Potential of an element is equal to Options: 1 X Its reduction potential
21 X Its standard oxidation potential
31 X Its reduction potential
1 X Its standard oxidation potential

Question Number : 89 Question Id : 67809438545 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical	
The standard emf for the cell reaction, Zn+Cu ⁺² \rightarrow Cu + Zn ²⁺ is 1.10 \lor at	
25°C. The emf of the cell reaction when 0.1 M Cu ⁺² and 0.1 M Zn ⁺²	
solutions are used at 25°C is	
Options:	
1. 1.10V	
2. 0.11 V	
-1.10V 3.	
40.11V	
Question Number: 90 Question Id: 67809438546 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical	
Which chemical is responsible for permanent hardness of water?	
Options:	
1. KCI	
2. MgCl ₂	
3. NaCl	
4. AgCI	
Question Number: 91 Question Id: 67809438547 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical	
Permutit is chemically	
Options:	
Sodium Silicate	
2. Aluminium Silicate	
3. Hydrated Sodium alumino silicate	
Calicium silicate	

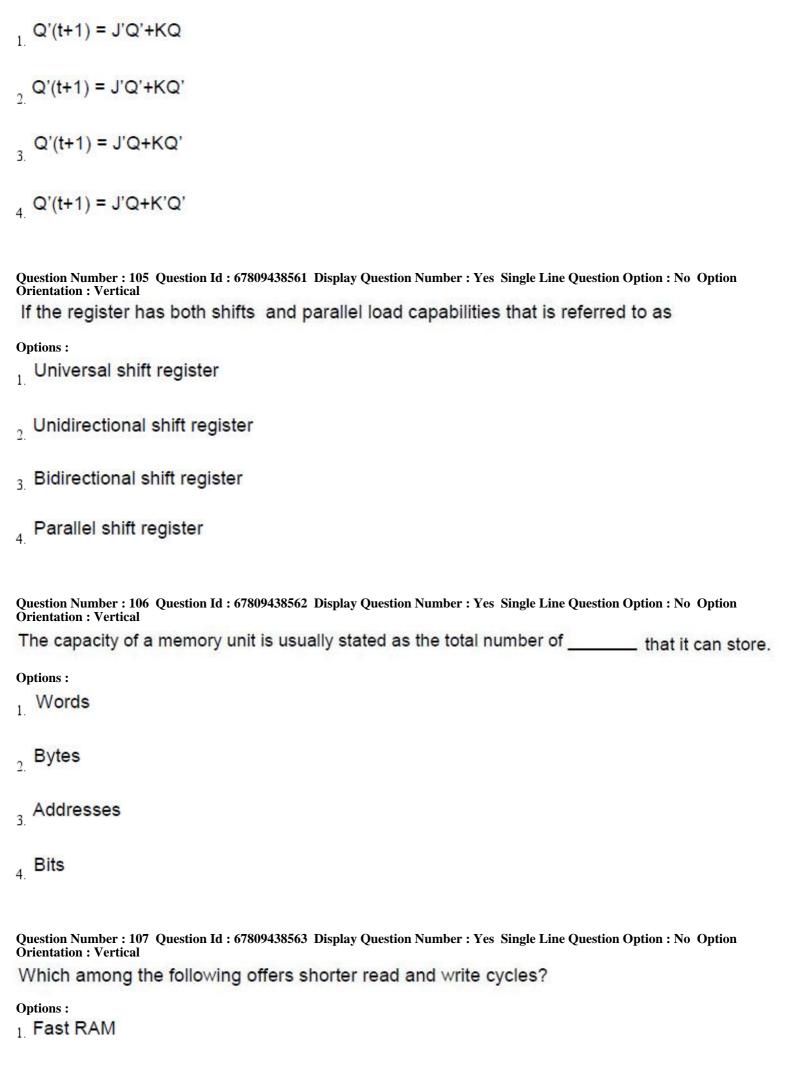
Question Number : 92 Question Id : 67809438548 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical	
The cation exchange resin possesses	
Options:	
Acidic group	
Basic group	
Amphoteric group 3.	
Benzo group	
Question Number: 93 Question Id: 67809438549 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Chemically the rust is Options:	
1. Fe ₂ O ₃	
Fe ₂ O ₃ . FeO	
Fe ₂ O ₃ .XH ₂ O _{4.} Fe ₂ O ₃ . NH ₃	
4. 1 6203 . 14113	
Question Number: 94 Question Id: 67809438550 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical	
Galvanizing is the process of coating iron with	
Options: Mg	
_{2.} Cu	
_{3.} Au	
Zn 4.	

Question Number: 95 Question Id: 67809438551 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following is not a thermoplastic?
Options:
Bakelite
Polystyrene 2.
Polythene
4. Nylon
Question Number: 96 Question Id: 67809438552 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Isoprene is a monomer of
Options: Starch
2. Cellulose
Natural rubber
Lignin 4.
Question Number: 97 Question Id: 67809438553 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Buna-S is a copolymer of Options: Butadiene and Styrene
Butadiene and Acrylonitrile
Butadiene and Isoprene
Formaldehyde and Styrene
Question Number: 98 Question Id: 67809438554 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Main constituent of natural gas is

1. Ethane	
_{2.} Methane	
3. Butane	
Carbon Monoxide	
Question Number: 99 Question Id: 67809438555 Orientation: Vertical Ozone layer is present at	Display Question Number : Yes Single Line Question Option : No Option
Options : 1. Staratosphere	
2. Inosphere	
Thermosphere 3.	
4. Atmosphere	
Orientation : Vertical	6 Display Question Number: Yes Single Line Question Option: No Option lecompose biodegradable organic matter of a given volume of water is
Options:	
Biochemical Oxygen Demand	
2. Biological Oxygen Demand	
Chemical Oxygen demand	
4. Biomagnification	
	Computer Science and Engineering
Number of Questions:	100
Display Number Panel: Group All Questions:	Yes No
Group An Questions.	110

Question Number: 101 Question Id: 67809438557 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Which among the following was the first version in the TTL family?
Options :
Standard
2. Low-power
3. Schottky
Fast
Question Number: 102 Question Id: 67809438558 Display Question Number: Yes Single Line Question Option: No Option
Orientation : Vertical
The logical sum of all the minterms of a Boolean function of n variables is
Options:
1. 0
2. 1
3. n
n(n+1)/2
Question Number: 103 Question Id: 67809438559 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Circuits that generate the parity bit in the receiver and transmitter are called and respectively.
Options:
Parity checker, Parity Generator
Parity Generator, Parity checker
Parity Generator, Parity encoder
Parity encoder, parity decoder
Question Number: 104 Question Id: 67809438560 Display Question Number: Yes Single Line Question Option: No Option
Orientation : Vertical The characteristic equation for the complement output of a JK flip flop is
Options:
operous .



2. Commercial RAM
Static RAM
4. Dynamic RAM
Question Number: 108 Question Id: 67809438564 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
4-to-16 line decoder can be constructed with 2-to-4 line decoders with enable.
Options: 1. 4
2. 2
3. 5
4. 8
Question Number: 109 Question Id: 67809438565 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Which of the following registers of 8086 can also be used for memory addressing when data is transferred between I/O port and memory using certain I/O instructions.
Options: 1. AX
_{2.} BX
3. CX
4. DX
Question Number: 110 Question Id: 67809438566 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
In addressing mode the operand is specified in the instruction itself.
Options : 1. Implicit
2. Immediate

4. Displacement
Question Number: 111 Question Id: 67809438567 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical pin of 8086 is for data enable. Options:
1. ALE
2. DEN
$_{3.}$ DT/ \bar{R}
4. Lock
Question Number: 112 Question Id: 67809438568 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical The intervals of no bus activity that occur between bus cycles are known as state
Options: 1. Idle
_{2.} Busy
3. Wait
4. Ready
Question Number: 113 Question Id: 67809438569 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical In minimum mode interface, the memory segment status code $s_4s_3 = 00$ identifies
a register known as segment register as the source of the segment
address.
Options: 1. Extra
2. Stack

Direct memory

Code/None 3.
4. Data
Question Number: 114 Question Id: 67809438570 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical register of 8086 can be used for I/O operations and string manipulation. Options: 1. Count
2. Data
3. Accumulator
4. Base
Question Number: 115 Question Id: 67809438571 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Which among the following processor has a built in math co-processor in a single chip.
Options: 1. 80186
_{2.} 80286
_{3.} 80386
4. 80486
Question Number: 116 Question Id: 67809438572 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical instruction copies the contents of AH to lower byte of flag register of 8086.
Options: 1. LAHF
2. SAHF
3. PUSHF
4. POPF

Question Number: 117 Question Id: 67809438573 Display Question Number: Yes Single Line Question Option: No Option Drientation: Vertical
The flag of 8086 that is not affected by the instruction INC Scr is
Options : AF
SF
CF
ZF
Question Number: 118 Question Id: 67809438574 Display Question Number: Yes Single Line Question Option: No Option Drientation: Vertical
ntel 80386 contains a circuitry of transistors.
Options :
2,75,000
1,75,000
3,75,000
75,000
Question Number: 119 Question Id: 67809438575 Display Question Number: Yes Single Line Question Option: No Option Drientation: Vertical
An overflow will be detected if the carry into the sign bit position and the carry out
of the sign bit position are
Options:
equal
not equal
both zeros
both ones

Question Number : 120 Question Id : 67809438576 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Statement 1: Zero cannot be normalized.

Question Number: 123 Question Id: 67809438579 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Ten characters per second with an 11-bit format has a transfer rate of baud.
Options: 1. 880
2. 110
3. 88
4. 80
Question Number: 124 Question Id: 67809438580 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
is an address that points to a location in memory where the
beginning address of the I/O service routine is stored.
Options:
1. Program Counter
2. Interrupt Register
3. Interrupt Vector
4. Fixed Location
Question Number: 125 Question Id: 67809438581 Display Question Number: Yes Single Line Question Option: No Option
Orientation : Vertical
The CPU can communicate with the DMA registers through the data bus to read
from or write to the DMA registers, when BG (Bus Grant) input is
Options:
1. 1
2. 0
3. non zero
4. neither 0 nor 1
Question Number: 126 Question Id: 67809438582 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical The devices that provide backup storage are called memory.
Options:

1. Main 1.
_{2.} Auxiliary
3. Associative
4. Cache
Question Number: 127 Question Id: 67809438583 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical How many 128 X 8 RAM chips are needed to provide a memory capacity of 2048 bytes
Options: 1. 2
2. 4
3. 8
_{4.} 16
Question Number: 128 Question Id: 67809438584 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical A computer with cache access time of 100ns, a main memory access time of
1000ns and a hit ratio of 0.9 produces an average time of
Options: 200ns
_{2.} 10ns
3. 900ns
4. 1100ns
Question Number : 129 Question Id : 67809438585 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

```
What is the output of the following program:
 main()
 {
    Char *p;
    p="$#%\n";
    p=p+3;
    printf("%c", *(p-3));
 }
Options:
4. Error
Question Number: 130 Question Id: 67809438586 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
 The output of the following program is ______.
main()
 {
    int num=0;
    while((num--)!=0)
      num++;
   printf("%d", num);
 }
Options:
1. 0
```

```
2. 1
3. -1
4. Error
Question Number: 131 Question Id: 67809438587 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
Statement1: We can define a function within another function.
Statement 2: By, default the return value of any function is float.
Options:
Both Statement 1 and statement 2 are true
  Statement 1 is true and statement 2 is false
3 Statement 1 is false and statement 2 is true
4 Both Statement 1 and statement 2 are false
Question Number: 132 Question Id: 67809438588 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
 The output of the following program is ______.
 main()
 {
    int num []=\{1,2,3,4,5\};
    int i, *pnum = num;
    for(i=0;i<5;i++){}
       printf("%d", *num);
       pnum++;
    }
 }
Options:
112345
```

3.01234
4. Error
Question Number: 133 Question Id: 67809438589 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical handles the logic behind all the #directives in C. Options: Loader
2. Preprocessor
Compiler 3.
4. Linker
Question Number: 134 Question Id: 67809438590 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Sorting techniques when applied to data items available in the secondary
memory are referred to as sorting techniques.
Options: 1. External
2. Internal
3. Secondary
4. Auxiliary
Question Number: 135 Question Id: 67809438591 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Which of the following characteristic of the data is not required for linear search
but essential for binary search?
Options: 1. Length of the list

2. 1 1 1 1 1 1

Maximum value in the list	_	Maximum	value	in	the	list
---------------------------	---	---------	-------	----	-----	------

- 3 Type of elements of the list
- 4 Order of the elements of the list

Question Number: 136 Question Id: 67809438592 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In a queue, we remove the item that is _____ added.

Options:

- Least recently
- 2 Most recently
- 3 both Least recently and Most recently
- 4 Either Least recently or Most recently

Question Number : 137 Question Id : 67809438593 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Match the following for binary tree traversal

(1) Pre Order	(A) Root Left Right	
(2) In Order	(B) Left Right Root	
(3) Post Order	(C)Left Root Right	

Options:

$$1 \rightarrow A, 2 \rightarrow B, 3 \rightarrow C$$

$$_2$$
 1 \rightarrow A, 2 \rightarrow C, 3 \rightarrow B

$$_3$$
 1 \rightarrow B, 2 \rightarrow A, 3 \rightarrow C

$$_4$$
 1 \rightarrow C, 2 \rightarrow B, 3 \rightarrow A

Question Number: 138 Question Id: 67809438594 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Sorting of playing cards in our hands is an example for _____ sort

Options:

1. Selection
2. Insertion
3. Bubble
, Merge
Question Number: 139 Question Id: 67809438595 Display Question Number: Yes Single Line Question Option: No Option Drientation: Vertical In topology, every device has a dedicated point-to-point link to every other device. Options: Mesh Star Bus Ring
Question Number: 140 Question Id: 67809438596 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical IP address which is reserved for loopback testing is Options: 192.0.0.1
2 127.0.0.1
_{3.} 255.255.255
10.255.255.255
Question Number: 141 Question Id: 67809438597 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Cable accepts and transports signals in the form of light. Options: Twisted pair
2 Coaxial

3. Optical fiber
4. Copper
Question Number: 142 Question Id: 67809438598 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
The size of the MAC Address and IPV4 addresses are and
respectively.
Options: 1. 64, 32
2. 48, 64
_{3.} 64, 48
48, 32
Question Number: 143 Question Id: 67809438599 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
The first address of a block of classless addresses if one of the addresses is
12.2.2.127/28 is
Options: 1. 12.2.2.0
_{2.} 12.2.2.96
3. 12.2.2.112
4. 12.2.2.28
Question Number: 144 Question Id: 67809438600 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical In classful addressing, when a direct delivery is made, both the deliverer and
receiver have the same
Options: 1. netid
2. hostid

4. Next nop address
Question Number: 145 Question Id: 67809438601 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
The TELNET server uses port and the TELNET client uses
port.
Options: 1. an ephemeral; another ephemeral
2. a well-known; another well-known
an ephemeral; a well-known
4. a well-known; an ephemeral
Question Number: 146 Question Id: 67809438602 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
The data connection can be opened, during an FTP session.
Options: 1. exactly once
2. exactly twice
3. as many times as necessary
None of the above is correct
Question Number: 147 Question Id: 67809438603 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
HTTP uses the services of TCP on well-known port
Options:
1. 13
1. ¹³ _{2.} 21

3. IP address

Question Number: 148 Quest Orientation: Vertical	tion Id: 67809438604 Display Question Number: Yes Single Line Question Option: No Option
SMTP is a	protocol.
Options: 1. Pull	
_{2.} Push	
3. Pull and Push	
4. Neither Pull nor Pu	sh
Orientation: Vertical The function key that	tion Id: 67809438605 Display Question Number: Yes Single Line Question Option: No Option t needs to be pressed to enter in Safe Mode while s system is
Options: 1. F1	
_{2.} F2	
_{3.} F8	
_{4.} F9	
Question Number : 150 Quest Orientation : Vertical	tion Id: 67809438606 Display Question Number: Yes Single Line Question Option: No Option
What is the default V	Veb browser of Windows operating system?
Options: 1. Internet Explorer	
_{2.} Safari	
3. Opera	
4. Chrome	

4.88

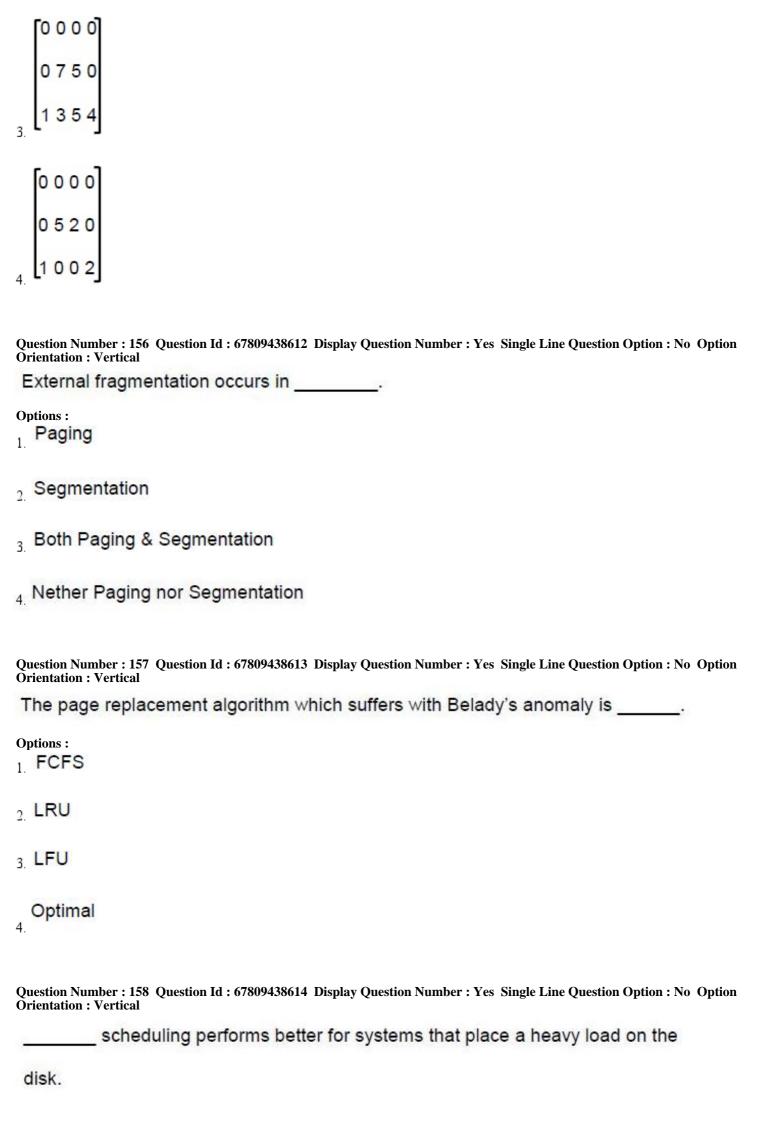
 $Question\ Number: 151\ Question\ Id: 67809438607\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Windows system call CreatePipe() falls into category of system calls.
Options: Process Control
2. Device Manipulation
Protection 3.
4. Communication
On the New Lord Country II. (700042000 Division Country New Lord Country On the Onthe No. On the
Question Number: 152 Question Id: 67809438608 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
The list of processors waiting for a particular I/O device is called a
queue.
Options:
1. Device
2. I/O
3. Job
4. Ready
Question Number: 153 Question Id: 67809438609 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical Degree of multiprogramming is controlled by scheduler
Degree of multiprogramming is controlled by scheduler.
Options: Long term 1.
2. Short term
3. Medium term
4. Very short term
Question Number: 154 Question Id: 67809438610 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The time taken by the	ne dis	spa	tch	er t	o st	top	on	ер	roce	ess	an	d s	tart another running is	
known as the														
Options: Dispatch latency														
2. Waiting time														
3. Turnaround time														
4. Response time														
Question Number : 155 Quest Orientation : Vertical	tion Id	: 678	8094.	3861	l Dis	play	Que	estion	Nun	nber	: Ye	es Si	ngle Line Question Option: No Op	tion
Consider the following	ng sn	ap	sho	ot of	fas	syst	tem	1:						
		Al	loc	atio	n	М	ах	V		A۱	/ail	abl	е	
		Α	В	С	D	Α	В	С	D	Α	В	С	D	
	P ₀	0	0	1	2	0	0	1	2	1	5	2	0	
	P ₁	1	0	0	0	1	7	5	0					
	P ₂	1	3	5	4	2	3	5	6					
Using Banker's algo	rithm	, th	e c	ont	ent	of	the	ma	atrix	Ne	eed	is	<u> </u>	
Options:														
[0000]														
0000														
0 0 0 0 0 7 5 0 1 0 0 2														

1000

2. 1002



Options:
1. FCFS
2. SSTF
3. SCAN
4. C-SCAN
Question Number: 159 Question Id: 67809438615 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical To keep track of free disk space, the system maintains a list.
Options: 1. Free-space
2. Disk-allocation
3. File-allocation
4. Empty-space
Question Number: 160 Question Id: 67809438616 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical In RR Scheduling, a rule of thumb is that % of the CPU bursts should be shorter than the time quantum.
Options: 1. 20
_{2.} 50
3. 80
4. 90
Question Number: 161 Question Id: 67809438617 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Which of the following is false with respect to centralized control of the data?
Options: Redundancy can be reduced

2. Data can be shared
3. Integrity can be maintained
4. Standards cannot be enforced
Question Number: 162 Question Id: 67809438618 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
constraints are constraints implied by the existence of foreign keys.
Options: Key 1.
2. Referential
3. Entity
4. Other
Question Number : 163 Question Id : 67809438619 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
In data model, the information about the description of the data
(schema) is contained within the data itself.
Options: Object-based
2. Network
3. Semi structured
4. Physical
Question Number: 164 Question Id: 67809438620 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical In mapping, each instance of entity type E1 is associated with at most
one instance of entity type E2 and vice-versa.

One-to-many
3. Many-to-one
4. Many-to-many
Question Number: 165 Question Id: 67809438621 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical The symbol used for existential quantifier is
Options : 1. \(\sum_{\text{1.}} \sum_{\text{1.}} \)
2. £
3.
4. ³
Question Number: 166 Question Id: 67809438622 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical The operator that selects values that match any value in a given list of values is
Options: BETWEEN 1.
2. LIKE
3. IN
4. DIFFERENCE
Question Number: 167 Question Id: 67809438623 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical If A-> B holds, then AC->BC holds, this axiom is Options: 1. Transitivity rule
Reflexivity rule

Augmentation rule
Union rule 4.
Question Number: 168 Question Id: 67809438624 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Fifth Normal Form is based on the concept of
Options : Functional dependency 1.
Transitive dependency
Multi valued dependency
Join dependency
Question Number: 169 Question Id: 67809438625 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Data type(s) supported by PL/SQL:
Options: Scalar data type only 1.
2. Complex data type only
3. Both Scalar & Complex data types
Neither Scalar nor Complex data types
Question Number: 170 Question Id: 67809438626 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Life cycle of typical cursor involves the following 5 steps in SQL Server.
Options:
Declare Cursor, Open, fetch, Close and Deallocate
Create Cursor, Open, fetch, Close and Deallocate
Declare Cursor, Create, fetch, Close and Deallocate

4. Declare Cursor, Open, Create, fetch and Close
Question Number: 171 Question Id: 67809438627 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Reuse of an existing class can be done by using
Options: 1. Inheritance
2. Polymorphism
3. Abstraction
4. Data Binding
Question Number: 172 Question Id: 67809438628 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
The manipulator < <endl a="" character.<="" effect="" has="" of="" printing="" td="" the=""></endl>
Options:
1. '\n'
2. '\t'
3. '\b'
4. "\V"
Question Number: 173 Question Id: 67809438629 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
When delete is used to deallocate memory for a C++ class object, the object's
is called before the object's memory is deallocated.
Options:
1. Destructor
2. Constructor
3. Base class
4. Child classes

Question Number: 174 Question Id: 67809438630 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
The loop statement terminated by a semicolon is
Options : 1. for
2. while
3. do-while
_{4.} switch
Question Number: 175 Question Id: 67809438631 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Using parentheses() with statement in C++ programming is optional.
Options: 1. exit
_{2.} main
3. clrscr
_{4.} return
Question Number: 176 Question Id: 67809438632 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Which of the following statements are true:
A. Overloading operators are only for classes B. Overloaded operators have different syntax from the original operator C. Only existing operators can be overloaded
Options:
B & C
3. A & C
4. A, B & C

 $Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

When a class is not used for creating objects, it is called as	class.
Options:	
1. Virtual	
Page	
2. Base	
3. Abstract	
3. / 10011401	
4. Friend	
O 4' N I 180 O 4' II (8000420(24 D' I O 4' N I N C' I I' O 4	·
Question Number: 178 Question Id: 67809438634 Display Question Number: Yes Single Line Quest Orientation: Vertical	ion Option : No Option
The name of the array is itself a	
Options:	
Object	
2. Pointer	
Variable	
3. Variable	
4. Reference	
4.	
Question Number: 179 Question Id: 67809438635 Display Question Number: Yes Single Line Quest Orientation: Vertical	ion Option : No Option
The function that shifts the associated file's input file pointer is	
Options:	
seekp()	
1.	
2 seekg()	
2.	
3. tellp()	
4. tellg()	
Question Number: 180 Question Id: 67809438636 Display Question Number: Yes Single Line Question	ion Option : No Option
Orientation: Vertical	Tr
The deviced class without more circuit of foresting in a limit	
The derived class without pure virtual function is called as	

1. Abstract class
2. Pure derived class
3. Container class
4. Concrete class
Question Number: 181 Question Id: 67809438637 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical is a small program that is dynamically downloaded over the web. Options: Applet
2. Dynamic Program
3. Code chef
4. Snippet
Question Number: 182 Question Id: 67809438638 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical What will be the result of the following Java expression? 4*2-5>4&&3<5-3
Options: 1. FALSE
2. TRUE
3. O
4. 1
Question Number: 183 Question Id: 67809438639 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Which of the following creates an object called ob of MyClass? Options: MyClass ob = new MyClass;

MyClass ob = new MyClass();
3. MyClass ob = MyClass;
4. MyClass ob = MyClass();
Question Number: 184 Question Id: 67809438640 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical class has access to the other members of its enclosing class. Options: Nested
_{2.} Static
3. Inner
4. Friend
Question Number: 185 Question Id: 67809438641 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical keyword is used to prevent a class from being inherited. Options: 1. Super
3. Constant
4. Interface
Question Number: 186 Question Id: 67809438642 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical At the top of Java API Package hierarchy is
Options: 1. Java
2. Object
3. Awt

4. Util
Question Number: 187 Question Id: 67809438643 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical In Java, all exceptions are derived from the class
Options: 1. Exception
2. Error
3. Runtime Exception
4. Throwable
Question Number: 188 Question Id: 67809438644 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical The method that makes the new thread running is
Options: 1. start()
_{2.} run()
yield() 3.
notify()
Question Number: 189 Question Id: 67809438645 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical To show a banner scrolled in an applet, the method used is
Options: 1. init()
2. paint()
repaint()
4. println()

Question Number: 190 Question Id: 67809438646 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Garbage collection in Java is done
Options: 1. only manually by user
2. Automatically by java runtime
Both manually and automatically
Neither manually nor automatically
Question Number: 191 Question Id: 67809438647 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical element contain meta information about the document.
Options: <head> 1.</head>
2. <html></html>
html
4. <title></td></tr><tr><td>Question Number: 192 Question Id: 67809438648 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical style sheet is used to define the style of many HTML pages.</td></tr><tr><td>Options: 1. Inline</td></tr><tr><td>2. Internal</td></tr><tr><td>3. External</td></tr><tr><td>4. None of the above</td></tr><tr><td>Question Number : 193 Question Id : 67809438649 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical</td></tr></tbody></table></title>

Identify the type of error in the following Php code:
php</td
Function sum()
{
}
Sum1();
?>
Options: Parser error 1.
2. notice error
3. Warning error
4. Fatal error
Question Number: 194 Question Id: 67809438650 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical The output of the following code snippet is
Php</td
\$str="welcome";
Echo substr(\$str,3,4);
?>
Options: 1.
1. Icom

Question Number: 195 Question Id: 67809438651 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Which of the following statements is true?
A. Sessions are secure
B. Cookies store large amount of data
C. Sessions store information in client machine
Options: A only 1.
2. B only
3. C only
A & B only
Question Number: 196 Question Id: 67809438652 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
\$a = array(10,20,30);
Echo implode('@',\$a);
?>
The output of the above program is
Options: 1. 10@20@30
2. @10
_{3.} 10@
4. 10 20 30
Question Number: 197 Question Id: 67809438653 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Which among the following data providers is not supported by ADO.NET?
Options: 1. ODBC

2. MySQL Server
3. MyAccess
4. OLEDB
Question Number: 198 Question Id: 67809438654 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical serve as a bridge between a Dataset and Data Source for retrieving stored data.
Options: Data manipulator
Data adapter
3. Dataset Object
4. Data Reader
Question Number: 199 Question Id: 67809438655 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical is a collection of DataColumn, DataRows and Constraints. Options: Dataset
is a collection of DataColumn, DataRows and Constraints. Options:
is a collection of DataColumn, DataRows and Constraints. Options: Dataset
is a collection of DataColumn, DataRows and Constraints. Options: 1. Dataset 2. Data Relations
is a collection of DataColumn, DataRows and Constraints. Options: 1 Dataset 2 Data Relations 3 Data Table
is a collection of DataColumn, DataRows and Constraints. Options: 1. Dataset 2. Data Relations 3. Data Table 4. Data Adapter Question Number: 200 Question Id: 67809438656 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

3. Copy()

HasChanges()