# Andhra Pradesh State Council of Higher Education

#### **Notations:**

- 1. Options shown in green color and with ✓ icon are correct.
- 2.Options shown in red color and with \* icon are incorrect.

Question Paper Name:

Computer Science and Engineering 06th

May 2025 Shift 1

**Subject Name:** Computer Science and Engineering

**Creation Date :** 2025-05-06 14:10:36

**Duration:** 180 **Total Marks:** 200 **Display Marks:** No **Share Answer Key With Delivery Engine:** Yes **Change Font Color:** No **Change Background Color:** No **Change Theme:** No **Help Button:** No **Show Reports:** No **Show Progress Bar:** No

# **Computer Science and Engineering**

Group Number: 1

**Group Id:** 89040173

Group Maximum Duration:

Group Minimum Duration:

Show Attended Group?:

No
Edit Attended Group?:

No
Break time:

0

Group Marks:

# **Mathematics**

**Section Id:** 890401283

Section Number:

Section type: Online

Mandatory or Optional: Mandatory

Number of Questions: 50

Number of Questions to be attempted: 50

Section Marks: 50

Maximum Instruction Time: 0
Sub-Section Number: 1

**Sub-Section Id:** 890401307

**Question Shuffling Allowed :** Yes

Question Number: 1 Question Id: 89040114413 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

If the matrix  $A = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$ , then which of the following is true?

#### **Options:**

1 \* The matrix is invertible

7. The matrix is singular

The matrix is diagonalizable

The matrix is symmetric.

Question Number: 2 Question Id: 89040114414 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

If  $A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$ , and the determinant of A is 5, then determinant of the matrix 2A is

# **Options:**

1. \* 10

2 🗸 20

3 **\*** 5

 ${\bf Question\ Number: 3\ Question\ Id: 89040114415\ Question\ Type: MCQ\ Option\ Shuffling: None of the property of the prope$ 

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

If the matrix A is of order 3x3 and the system of equations AX = B has a unique solution,

what can be concluded about the determinant of A?

# **Options:**

- 1. \* The determinant of A is zero
- The determinant of A is non-zero
- The determinant of A must be 1 only
- The determinant of A cannot be negative

 ${\bf Question\ Number: 4\ Question\ Id: 89040114416\ Question\ Type: MCQ\ Option\ Shuffling: None of the Control of the Contro$ 

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

If 
$$A = \begin{bmatrix} x & 3 \\ 2 & 4 \end{bmatrix}$$
 and  $A^{-1} = \begin{bmatrix} -2 & 1.5 \\ 1 & -0.5 \end{bmatrix}$  then the value of x is

- 1. \* -2
- 2. 🗸 1
- 3. \* 1.5
- 4. \* -0.5

 $\label{eq:Question Number: 5 Question Id: 89040114417 Question Type: MCQ Option Shuffling: No$ 

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

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

#### Options:

$$\begin{bmatrix} 0 & 0 \\ 3 & 4 \end{bmatrix}$$

$$\begin{bmatrix} 0 & 0 \\ 3 & 7 \end{bmatrix}$$

$$\begin{bmatrix} 3 & 7 \\ 0 & 0 \end{bmatrix}$$

$$\begin{bmatrix} 3 & 6 \\ 0 & 0 \end{bmatrix}$$

Question Number : 6 Question Id : 89040114418 Question Type : MCQ Option Shuffling : No Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

- 2x+5 A B

If 
$$\frac{2x+5}{(x-1)(x+3)} = \frac{A}{(x-1)} + \frac{B}{(x+3)}$$
 then A+B =

# Options:

Question Number: 7 Question Id: 89040114419 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

If 
$$\frac{3x-1}{(x-1)(x-2)(x-3)} = \frac{A}{(x-1)} + \frac{B}{(x-2)} + \frac{C}{(x-3)}$$
 then the values of (A, B, C) are

**Options:** 

$$(1, -5, 4)$$

Question Number : 8 Question Id : 89040114420 Question Type : MCQ Option Shuffling : No Display Question Number : Yes

Correct Marks: 1 Wrong Marks: 0

If 
$$\sin \theta = \frac{3}{5}$$
, then  $\cos \theta =$ 

**Options:** 

$$\frac{4}{5} but not - \frac{4}{5}$$

$$-\frac{4}{5} or \frac{4}{5}$$

$$-\frac{4}{5} but not \frac{4}{5}$$

$$\frac{3}{5} but not - \frac{3}{5}$$

Question Number: 9 Question Id: 89040114421 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

If  $\cos\theta \csc\theta = -1$  and  $\theta$  lies in the second quadrant then  $\cos\theta =$ 

$$\frac{-\sqrt{3}}{2}$$

2. \* 
$$\frac{\sqrt{2}}{2}$$

$$-\frac{\sqrt{2}}{2}$$

 ${\bf Question\ Number: 10\ Question\ Id: 89040114422\ Question\ Type: MCQ\ Option\ Shuffling: None of the property of the prop$ 

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

If 
$$5 \sin \theta = 4$$
 then the value of  $\frac{\operatorname{Cosec} \theta - \cot \theta}{\operatorname{Cosec} \theta + \cot \theta}$  is

#### Options:

Question Number: 11 Question Id: 89040114423 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

For real x and if  $x + \frac{1}{x} = 2\cos\theta$  then  $\cos\theta$  is

$$\pm \frac{1}{2}$$

Question Number: 12 Question Id: 89040114424 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

$$\sin^6 \theta + \cos^6 \theta + 3\sin^2 \theta \cos^2 \theta =$$

#### **Options:**

Question Number: 13 Question Id: 89040114425 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

The maximum value of  $3\cos\theta + 4\sin\theta$  is

Question Number: 14 Question Id: 89040114426 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

If  $\sin 5x + \sin 3x + \sin x = 0$  then the value of x other than zero lying between  $0 \le x \le \frac{\pi}{2}$  is

#### **Options:**

$$2. \checkmark \frac{\pi}{3}$$

3. \* 
$$\frac{\pi}{12}$$

$$4. \times \frac{\pi}{4}$$

Question Number: 15 Question Id: 89040114427 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

**Correct Marks: 1 Wrong Marks: 0** 

The general solution of the equation  $tan^2x = 1$  is

# **Options:**

$$n\pi + \frac{\pi}{4}$$
 only

$$n\pi \pm \frac{\pi}{4}$$

$$2n\pi \pm \frac{\pi}{4}$$

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

Question Number: 16 Question Id: 89040114428 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

The value of  $\cos \frac{5\pi}{17} + \cos \frac{7\pi}{17} + 2\cos \frac{11\pi}{17}\cos \frac{\pi}{17}$  is

**Options:** 

Question Number: 17 Question Id: 89040114429 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

If  $\sin \theta - \cos \theta = 4/5$  then the value of  $\sin \theta + \cos \theta =$ 

**Options:** 

$$-\frac{5}{\sqrt{34}}$$

$$-\frac{\sqrt{34}}{25}$$

Question Number: 18 Question Id: 89040114430 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

The real part of  $\frac{1+2i}{(2-i)^2}$  is

# Options:

$$-\frac{1}{5}$$

 ${\bf Question\ Number: 19\ Question\ Id: 89040114431\ Question\ Type: MCQ\ Option\ Shuffling: None of the Control of the Contr$ 

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Modulus of the complex number  $\frac{(1+i)^{10}}{(2i-4)^4}$  is equal to

#### **Options:**

$$-\frac{2}{25}$$

$$-\frac{1}{25}$$

 ${\bf Question\ Number: 20\ Question\ Id: 89040114432\ Question\ Type: MCQ\ Option\ Shuffling: None of the Control of the Contr$ 

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

In a circle with center O, a 6cm long chord is at a distance 4 cm from the center.

Then the length of diameter is

Question Number: 21 Question Id: 89040114433 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

The length of the tangent from the point (5, 1) to the circle  $x^2 + y^2 + 6x - 4y - 3 = 0$  is

#### **Options:**

 $Question\ Number: {\bf 22}\ Question\ Id: 89040114434\ Question\ Type: MCQ\ Option\ Shuffling: No$ 

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

If length of the tangent is 8 cm and the distance between the center of the circle and the

external point is 11 cm, then the area of the circle is

 ${\bf Question\ Number: 23\ Question\ Id: 89040114435\ Question\ Type: MCQ\ Option\ Shuffling: None of the Control of the Contr$ 

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

The equation of the parabola with focus (2, 0) and vertex (1, 0) is

#### **Options:**

$$y^2 = 4x$$

$$y^2 = 4x - 4$$

$$y^2 = 4(x+1)$$

$$y^2 = -4(x-1)$$

Question Number: 24 Question Id: 89040114436 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

If (2,0) is the vertex and y-axis is the directrix of a parabola then its focus is

Question Number: 25 Question Id: 89040114437 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

The eccentricity of the ellipse  $16x^2 + 7y^2 = 112$  is

# Options:

$$\frac{3}{\sqrt{7}}$$

$$4. \checkmark \frac{3}{4}$$

Question Number: 26 Question Id: 89040114438 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

The value of  $\lim_{n \to \infty} \frac{4x^3 - x + 1}{x^2 - 4x(1 - x^2)} =$ 

# **Options:**

Question Number: 27 Question Id: 89040114439 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

The value of 
$$\lim_{x\to 1} \left(\frac{x^3-1}{x-1}\right)$$
 is

# **Options:**

- 1. \* 0
- 2. \* 1
- 3. 🗸
- 4. \* Limit does not exist

Question Number: 28 Question Id: 89040114440 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

The derivative of  $x^x$  with respective to x is

#### Options:

$$1. \times x^{x}(x + \log x)$$

$$x^x(x - logx)$$

$$x^x(1-\log x)$$

$$4. \checkmark x^{x}(1 + logx)$$

Question Number: 29 Question Id: 89040114441 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks : 1 Wrong Marks : 0

$$\frac{d}{dx}(tan^{-1}\frac{x}{a}) =$$

1. \* 
$$\frac{a}{a^2 - x^2}$$

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

$$\frac{1}{a^2-x^2}$$

$$4. \checkmark \frac{a}{a^2 + x^2}$$

Question Number: 30 Question Id: 89040114442 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

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

**Options:** 

$$\frac{\cos x}{1-2y}$$

$$\frac{\sin x}{1-2y}$$

$$\begin{array}{c}
-\cos x \\
4. \checkmark & 1-2y
\end{array}$$

Question Number: 31 Question Id: 89040114443 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

Slope of the normal to the curve  $x^{2/3} + y^{2/3} = 2$  at the point (1, 1) is

 ${\bf Question\ Number: 32\ Question\ Id: 89040114444\ Question\ Type: MCQ\ Option\ Shuffling: Nocestian and the property of th$ 

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

The equation of the tangent to the curve  $y = x^3$  at (1, 1) is

#### **Options:**

$$3x - y + 2 = 0$$

$$2. \times x - 10y - 50 = 0$$

$$3x - y - 2 = 0$$

$$4 \times x - 10y + 50 = 0$$

Question Number: 33 Question Id: 89040114445 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

For what value of x, the function  $2x^3 + 3x^2 - 36x + 10$  has minimum

4. \* 1

Question Number: 34 Question Id: 89040114446 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

If 
$$z = x^2 - y^2$$
 then  $\frac{1}{x} \frac{\partial z}{\partial x} + \frac{1}{y} \frac{\partial z}{\partial y} =$ 

**Options:** 

1. \* 1

2x + 2y

3. 🗸 0

2x-2y

Question Number: 35 Question Id: 89040114447 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

If 
$$u = e^{xy}$$
, then the value of  $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2}$  at  $(1, 1)$  is

Options:

1. **≈** e

2. **√** 2e

3. \* 1

4. \* 0

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

The value of  $\int (\log secx) \tan x \ dx$  is

#### **Options:**

- 1. \* sec x +c
- $\log \sec x + c$
- $\frac{1}{2} (\log \sec x)^2 + c$
- log (log sec x )
  4. ❖

Question Number: 37 Question Id: 89040114449 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

$$\int \sin^2 x \ dx =$$

# Options:

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

Question Number: 38 Question Id: 89040114450 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

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

**Options:** 

$$\frac{1}{5}log\left|\frac{x-5}{x+5}\right| + c$$

$$\frac{1}{5}log\left|\frac{x+5}{x-5}\right| + c$$

$$\frac{1}{10}\log\left|\frac{5+x}{5-x}\right| + c$$

$$\frac{1}{10}\log\left|\frac{5-x}{5+x}\right| + c$$

Question Number: 39 Question Id: 89040114451 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

The value of  $\int_0^1 x(1-x)^9 dx$  is

Options:

Question Number: 40 Question Id: 89040114452 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

$$\int_{-a}^{a} |x| \ dx =$$

**Options:** 

- 1 **\*** a
- 2. **\*** 2a
- 3. \* 0
- 4. **✓** *a*<sup>2</sup>

 ${\bf Question\ Number: 41\ Question\ Id: 89040114453\ Question\ Type: MCQ\ Option\ Shuffling: None of the Control of the Contr$ 

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

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

**Options:** 

- <sub>1. \*\*</sub> -1
- 2 🗸 0
- 3. \* 1
- $\frac{\pi}{2}$

 $Question\ Number: 42\ Question\ Id: 89040114454\ Question\ Type: MCQ\ Option\ Shuffling: No$ 

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

The area bounded by the curve  $y = 4x^2$ , the x-axis, the line x=0 and the line x=1 is

Options:

1. \* 2

Question Number: 43 Question Id: 89040114455 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

The RMS value of  $x^2$  in [0, 1] is

#### **Options:**

$$\frac{1}{\sqrt{3}}$$

Question Number: 44 Question Id: 89040114456 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

The degree of the differential equation  $y' + y = \frac{5}{y'}$  is

3. \* 3

⊿ ※

 ${\bf Question\ Number: 45\ Question\ Id: 89040114457\ Question\ Type: MCQ\ Option\ Shuffling: None of the Control of the Contr$ 

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

The order of the differential equation whose general solution is  $y = a \sin x + b \cos x$  is

(where a and b are arbitrary constants)

#### **Options:**

1. 🗸 2

2. \* 4

3. \*\*

4. \* 3

Question Number: 46 Question Id: 89040114458 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

The differential equation  $\frac{dy}{dx} = -\left(\frac{x+y}{1+x^2}\right)$  is

# **Options:**

of Variable separable form

First order Linear equation

Homogeneous 3. \*

4. \* Exact differentia Equation

Question Number: 47 Question Id: 89040114459 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

The solution of the differential equation  $\frac{dy}{dx} = 1 + y^2$  is

#### **Options:**

$$y = tanx + c$$

$$y = \tan(x + c)$$

$$y = tanx$$

$$y = -\tan(x + c)$$

Question Number : 48 Question Id : 89040114460 Question Type : MCQ Option Shuffling : No Display Question Number : Yes

Correct Marks: 1 Wrong Marks: 0

The solution of the differential equation  $\frac{dy}{dx} + \frac{y}{x} = x^2$  under the condition that y(1) = 1 is

# Options:

$$4xy = x^3 + 3$$

$$4xy = x^4 + 3$$

$$4xy = x^3 - 3$$

$$4. * 4xy = x^4 - 3$$

Question Number : 49 Question Id : 89040114461 Question Type : MCQ Option Shuffling : No Display Question Number : Yes

# Correct Marks: 1 Wrong Marks: 0

The solution of the differential equation  $\frac{d^3y}{dx^3} + 3\frac{d^2y}{dx^2} + 2\frac{dy}{dx} = 0$  is

# **Options:**

1. 
$$\checkmark$$
  $y = a + be^{-x} + ce^{-2x}$ 

$$2. * y = a + be^x + ce^{2x}$$

$$y = ae^{-x} + be^{-2x} + ce^{x}$$

$$y = a + be^{-2x} + ce^{-3x}$$

Question Number: 50 Question Id: 89040114462 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

The particular integral of  $\frac{d^2y}{dx^2} + 3 \frac{dy}{dx} + 2y = e^{-2x}$  is

# Options:

$$1. \checkmark -xe^{-2x}$$

2. \* 
$$xe^{-2x}$$

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

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

# **Physics**

**Section Id:** 890401284

Section Number: 2

Section type: Online

Mandatory or Optional : Mandatory

Number of Questions :25Number of Questions to be attempted :25Section Marks :25Maximum Instruction Time :0Sub-Section Number :1

**Sub-Section Id:** 890401308

**Question Shuffling Allowed :** Yes

Question Number: 51 Question Id: 89040114463 Question Type: MCQ Option Shuffling: No

Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0

If we choose velocity V, length L and force F as fundamental physical quantities

then how would you express power in terms of V, L and F?

# Options:

 ${\bf Question\ Number: 52\ Question\ Id: 89040114464\ Question\ Type: MCQ\ Option\ Shuffling: None of the property of the prop$ 

**Display Question Number : Yes** 

Correct Marks : 1 Wrong Marks : 0

Which pair of physical quantities have same dimensional formula

- 1 \* Torque and momentum
- 2. Surface tension and tension
- Pressure and modulus of elasticity
- Force constant and Planck's constant

Question Number: 53 Question Id: 89040114465 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

If A + B = C and  $A^2 + B^2 = C^2$  then the angle between vectors A and B is

#### **Options:**

- 1. **×** 0°
- 2. **×** 60°
- 3. ✔ 90°
- 4. **\*** 120°

Question Number: 54 Question Id: 89040114466 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

The area of rectangle with sides as A = 3i + 4j and B = i + 3j is

# Options:

$$5\sqrt{10}$$
 units

- 2. **\*** 10 units
- 3.  $\approx 2\sqrt{10}$  units
- 4. **3** 10 √5 units

Question Number: 55 Question Id: 89040114467 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

If a pebble is thrown vertically upwards from the top of a tower with velocity 5 m/s. It strikes the ground after 3 seconds. With what velocity the pebble strikes the ground? (take  $g = 10 \text{ ms}^{-2}$ )

# Options:

- 10 m/s
- 2. **2**0 m/s
- 3. **✓** 25 m/s
- 4. × 30 m/s

 ${\bf Question\ Number: 56\ Question\ Id: 89040114468\ Question\ Type: MCQ\ Option\ Shuffling: None of the Control of the Contr$ 

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

If a body released from the top of a tower of height H meter takes T seconds to reach the ground, where is the body at time T/2 seconds from the ground?

# Options:

- 1. \* <sup>H</sup>/<sub>2</sub>
- 7 × 4
- 3. **✓** 4
- 2H 4 \* 3

Question Number: 57 Question Id: 89040114469 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

A body starts from rest and travels with uniform acceleration. If the distance covered in first 2 seconds is 'x' and next 2 seconds is 'y', then

#### Options:

$$y = x$$

$$y = 2x$$

$$3. \checkmark y = 3x$$

$$y = 4x$$

Question Number : 58 Question Id : 89040114470 Question Type : MCQ Option Shuffling : No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

A juggler throws ball into air. He throws one whenever the previous one is at its highest point. How high do the balls rise if he throws n balls each second?

# Options:

$$\frac{g}{2n^2}$$

$$\frac{n^2}{g}$$

Question Number: 59 Question Id: 89040114471 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

A block of mass m is lying on an inclined plane. The coefficient of friction between the plane and the block is  $\mu$ . The force required to move the block up the inclined plane will be

#### **Options:**

- mg sin θ μ mg cos θ
- $\min_{\theta} \sin \theta + \mu \operatorname{mg} \cos \theta$
- 3.  $\approx$  mg cos θ μ mg sin θ
- mg cos θ +  $\mu$  mg sin θ

Question Number: 60 Question Id: 89040114472 Question Type: MCQ Option Shuffling: No

Display Question Number : Yes

Correct Marks: 1 Wrong Marks: 0

The time taken by a body to slide down the smooth inclined plane is 4sec. The time taken by a body to slide 1/4<sup>th</sup> of the length of the plane is

#### Options:

- 1. \* 1 sec
- 2. 2 sec
- 3. **\*** 3 sec
- 4. \* 0.5 sec.

Question Number: 61 Question Id: 89040114473 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

A body of mass 2 Kg changes its velocity from (3 i - 4 j) m/s to (6j + 2 k) m/s. what is the change in kinetic energy of the body?

#### **Options:**

Question Number: 62 Question Id: 89040114474 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

At her maximum height a girl in a swing is 3m above the ground and at the lowest point she is 2m above the ground. Her maximum velocity is

# Options:

Question Number: 63 Question Id: 89040114475 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

An engine delivers 1000 watt of power with 80% efficiency. The input power is

Question Number: 64 Question Id: 89040114476 Question Type: MCQ Option Shuffling: No

Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0

If a seconds pendulum on the earth is taken to a planet whose gravity is half of the gravity on earth, its time period on that planet is

#### Options:

$$3. \times 4\sqrt{2} \sec$$

Question Number: 65 Question Id: 89040114477 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

The amplitude of a simple harmonic oscillator is A. When the velocity of particle is half of its maximum velocity, then its position is at

$$\frac{\sqrt{3} \text{ A}}{4}$$

$$4. \checkmark \frac{\sqrt{3} \text{ A}}{2}$$

 ${\bf Question\ Number: 66\ Question\ Id: 89040114478\ Question\ Type: MCQ\ Option\ Shuffling: None of the Control of the Contr$ 

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

The displacement of a particle executing SHM is  $x = 3 \sin 2t + 4 \cos 2t$ .

The amplitude of particle is

# Options:

- 1. \* 7
- 2. \* 3
- 3. \* 4
- 4. 🗸 5

Question Number: 67 Question Id: 89040114479 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

The beats are produced by two sound sources of same amplitude and of nearly equal frequencies. The maximum intensity of beats will be \_\_\_\_\_ when compared to that of one source is

- 1. Same
- 2. \* Double

3. Four times

4. \* Eight times

Question Number: 68 Question Id: 89040114480 Question Type: MCQ Option Shuffling: No

Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0

A siren emitting sound of frequency 800 Hz is going away from a static listener with a speed of 30 m/s. Frequency of sound heard by the listener is

(Velocity of sound in air = 340 m/s)

#### **Options:**

286.5 Hz

2. × 418.2 Hz

3. 4 733.3 Hz

4. **\*** 644.5 Hz

Question Number : 69 Question Id : 89040114481 Question Type : MCQ Option Shuffling : No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

During the melting of a slab of ice at 273K at atmospheric pressure

#### **Options:**

Positive work is done by the ice-water system on the atmosphere

Positive work is done on the ice-water system by the atmosphere

Negative work is done on the ice-water system by the atmosphere

The internal energy of the ice-water system decreases

Question Number: 70 Question Id: 89040114482 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

A gas is compressed at a constant pressure of 50  $N/m^2$  from a volume of  $10 \, m^3$  to a volume of  $4 \, m^3$ . Energy of 100 J is then added to the gas by heating. Its internal energy is

#### **Options:**

- 1. Increases by 400 J
- 2. \* Increases by 200 J
- 3. \* Increases by 100 J
- △ \* Decreases by 200 J

Question Number: 71 Question Id: 89040114483 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

A vessel containing 10 liters of an ideal gas at a pressure of 760 mm of Hg is connected to an evacuated 9 liter vessel. The resultant pressure is

#### **Options:**

- 1. 400 mm of Hg
- 2. \* 1440 mm of Hg
- 40 mm of Hg
- 4. \* 760 mm of Hg

Question Number: 72 Question Id: 89040114484 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** 

#### **Correct Marks: 1 Wrong Marks: 0**

A sealed glass jar is full of water. When its temperature is decreased to 0° C

#### **Options:**

- The glass jar remains as it is with ice
- The glass jar remains as it is with water
- Glass jar contains half the amount of ice mixed with water
- The glass jar breaks due to the formation of ice

Question Number: 73 Question Id: 89040114485 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

**Correct Marks: 1 Wrong Marks: 0** 

A bubble rises from the bottom of a lake 90 m deep on reaching the surface,

its volume becomes ( Atmospheric pressure is 10 m of water)

#### **Options:**

- 4 times
- 2. **8** times
- 3. **1**0 times
- 4. × 3 times

Question Number: 74 Question Id: 89040114486 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

An endoscope is employed by a physician to view the internal parts of a body organ.

It is based on the principle of

- 1. \* Refraction
- 2. \* Reflection
- 3. Dispersion
- Total internal reflection

Question Number: 75 Question Id: 89040114487 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

**Correct Marks: 1 Wrong Marks: 0** 

Light of wavelength 5000 A° falls on a sensitive plate with photo electric work

function of 1.9 eV. The kinetic energy of the emitted photoelectron will be

#### **Options:**

1. ✓ 0.58 eV

2. **2**.48 eV

3. **\*** 1.24 eV

4. \* 1.16 eV

# **Chemistry**

**Section Id:** 890401285

Section Number: 3

Section type: Online

Mandatory or Optional : Mandatory

Number of Questions: 25

Number of Questions to be attempted: 25

Section Marks: 25

Maximum Instruction Time: 0

Sub-Section Number:

**Sub-Section Id:** 890401309

 ${\bf Question\ Number: 76\ Question\ Id: 89040114488\ Question\ Type: MCQ\ Option\ Shuffling: None of the Control of the Contr$ 

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

Consider the elements with atomic numbers Z = 1 to Z=20. The number of

elements with only one unpaired electron in their ground state is

#### Options:

- 1. \* 10
- 2. \*\* 6
- 3. 🗸 8
- 4. \* 12

Question Number: 77 Question Id: 89040114489 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Identify the orbital which has lobes not orienting on the axis

# Options:

- 1. \* P<sub>x</sub>
- 2. **≈** *Py*
- 3. \*  $d_{x^2-y^2}$
- 4. **✓** dyz

Question Number: 78 Question Id: 89040114490 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

If n, l, m and s represent the symbols of quantum numbers, the impossible

quantum number set for the electron in terms of n, l, m and s respectively is

# Options:

Question Number: 79 Question Id: 89040114491 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Consider the elements with atomic numbers Z = 8, 9, 11, 19 and 20. The number

of ionic compounds possible with the elements having these atomic numbers is

# **Options:**

Question Number: 80 Question Id: 89040114492 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

In which of the molecules lone pair, bond pair of electrons ratio is 2:3?

- 1. **\*** Cl<sub>2</sub>
- 2. × O<sub>2</sub>
- 3. \* HCl
- 4. **✓** N<sub>2</sub>

Question Number: 81 Question Id: 89040114493 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

How many moles of urea is present in 250 ml of 0.2 M solution of it?

#### **Options:**

- 1. \* 0.03
- 2. \* 0.04
- 3. 🗸 0.05
- 4. \* 0.06

 ${\bf Question\ Number: 82\ Question\ Id: 89040114494\ Question\ Type: MCQ\ Option\ Shuffling: None of the Control of the Contr$ 

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

x ml of 0.1 M NaOH solution is diluted with distilled water to get 250 ml of 0.01 M solution.

The value of x (in ml) is

- 1. \* 12.5
- 2. 🗸 25

3. \* 37.5

4. \* 50

 ${\bf Question\ Number: 83\ Question\ Id: 89040114495\ Question\ Type: MCQ\ Option\ Shuffling: None of the property of the prop$ 

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

 $3 \times 10^{22}$  molecules of Na<sub>2</sub>CO<sub>3</sub> (molecular weight = 106) present in 500 ml of solution.

The normality of the solution formed is  $(N = 6 \times 10^{23} \text{ mol}^{-1})$ 

# Options:

0.1 N

2. V 0.2 N

3. **\*** 0.4 N

4. \* 0.05 N

Question Number: 84 Question Id: 89040114496 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Identify the pair containing only Lewis acids

Question Number: 85 Question Id: 89040114497 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

4 g of NaOH is dissolved in 1.0 L solution. The pH of solution is

# **Options:**

- 1. 13
- 2. \* 1
- 3. \* 12
- **⊿ ≈** 7.4

Question Number: 86 Question Id: 89040114498 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Number of coulombs corresponding to 1 mol of electrons approximately is equal to

# **Options:**

- 1. \* 1.93 x 10<sup>5</sup>
- 2. ✓ 9.65 x 10<sup>4</sup>
- 3. × 1.93 x 10<sup>4</sup>
- 4. × 9.65 x 10<sup>5</sup>

Question Number: 87 Question Id: 89040114499 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Aqueous solution of which of the following does not act as electrolyte?

# Options:

- 1. V Urea
- Copper Sulphate
- Silver Nitrate
- 4 \* Sodium Chloride

 ${\bf Question\ Number: 88\ Question\ Id: 89040114500\ Question\ Type: MCQ\ Option\ Shuffling: None of the property of the prop$ 

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

The amount of silver (in mg) deposited when 9.65 coulombs of electricity is passed through

an aqueous solution of silver nitrate is (Ag=108 u) (1F=96500 C mol-1)

#### **Options:**

- 1. \* 16.2
- 2. \* 21.2
- 3. 🗸 10.8
- 4. \* 6.4

Question Number: 89 Question Id: 89040114501 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks : 1 Wrong Marks : 0

The standard electrode potentials of Zn, Ag and Cu are -0.76, +0.80 and +0.34 V

respectively. Identify the correct statement from the following.

# Options:

Ag can oxidize Zn and Cu

1 🕷

2. \* Ag can reduce Zn<sup>2+</sup> and Cu<sup>2+</sup>

Zn can reduce Ag<sup>+</sup> and Cu<sup>2+</sup>

4. \* Cu can oxidize Zn and Ag

Question Number: 90 Question Id: 89040114502 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

In the removal of permanent hardness of water by permutit process, Na+ ions of permutit

are exchanged with which ions of water?

## **Options:**

Question Number: 91 Question Id: 89040114503 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

What is the degree of hardness (in ppm) of a sample containing 19 mg of MgCl<sub>2</sub> (Molecular Weight = 95) in 2 kg water sample? (express it in terms of equivalents of CaCO<sub>3</sub>)

- 3. \* 30
- 4. \* 40

Question Number: 92 Question Id: 89040114504 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Identify the pair of chlorides responsible for permanent hardness of water.

#### **Options:**

- NaCl, KCl
- 2. CaCl2, KCl
- AlCl<sub>3</sub>, MgCl<sub>2</sub>
- 4. ✓ MgCl<sub>2</sub>, CaCl<sub>2</sub>

 ${\bf Question\ Number: 93\ Question\ Id: 89040114505\ Question\ Type: MCQ\ Option\ Shuffling: None of the Control of the Contr$ 

Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0

The cell formed in bent pipes is an example of

- Concentration Cell
- 2. Composition Cell
- 3. ✓ Stress Cell
- 4. \* Electrolytic Cell

Question Number: 94 Question Id: 89040114506 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Tarnishing of silver is due to formation of

#### Options:

- 1. \* Its sulphate layer
- 2. \* Its nitrate layer
- 3 / Its sulphide layer
- 4. \* Its chloride layer

 ${\bf Question\ Number: 95\ Question\ Id: 89040114507\ Question\ Type: MCQ\ Option\ Shuffling: None of the property of the prop$ 

Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0

Which of the following is not a co-polymer?

#### **Options:**

- 1. Buna-S rubber
- 2. 

  ✓ Neoprene rubber
- 3. \* Bakelite
- Urea − Formaldehyde

Question Number: 96 Question Id: 89040114508 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

The monomer involved in the formation of polystyrene is

#### **Options:**

1. \* CH2 = CH - C1

$$CH_2 = CH - CN$$

$$_3$$
  $\checkmark$   $_2$   $CH_2 = CH - C_6H_5$ 

Question Number: 97 Question Id: 89040114509 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

We can overcome the undesirable properties of natural rubber by heating natural rubber with

#### **Options:**

- 1. \* Carbon
- 2. ✓ Sulphur
- Phosphorus
- 4. Silicon

Question Number: 98 Question Id: 89040114510 Question Type: MCQ Option Shuffling: No

Display Question Number : Yes

Correct Marks: 1 Wrong Marks: 0

Liquefied petroleum gas (LPG) mainly contains

- Methane, Ethane
- Ethane, Propane
- 3. ✓ Butane, Isobutane

Question Number: 99 Question Id: 89040114511 Question Type: MCQ Option Shuffling: No

Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0

Greenhouse effect is caused by

#### **Options:**

- 1. NO2
- 2. **\*** CO
- 3. \* NO
- 4. **✓** CO<sub>2</sub>

 $Question\ Number: 100\ Question\ Id: 89040114512\ Question\ Type: MCQ\ Option\ Shuffling: No$ 

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Which compound is mainly responsible for the depletion of ozone layer?

# Options:

- 1. CO2
- 2. \* CH<sub>4</sub>
- 3. **≈** CH₃OH
- 4. ✓ CF<sub>2</sub>Cl<sub>2</sub>

# **Computer Science and Engineering**

**Section Id:** 890401286

Section Number :

Section type: Online

Mandatory or Optional: Mandatory

Number of Questions: 100

Number of Questions to be attempted: 100
Section Marks: 100

Maximum Instruction Time :
Sub-Section Number :

**Sub-Section Id:** 890401310

**Question Shuffling Allowed:** Yes

Question Number: 101 Question Id: 89040114513 Question Type: MCQ Option Shuffling: No

4

0

1

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Which of the following is a universal gate?

#### **Options:**

1. \* AND

2. \* OR

3. ✓ NAND

4. × XOR

Question Number: 102 Question Id: 89040114514 Question Type: MCQ Option Shuffling: No

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is NOT a combinational circuit?

#### **Options:**

1. ✓ Flip-Flop

Decoder 2. \*

3. Multiplexer

1	38	Adder
4.	*	

Question Number: 103 Question Id: 89040114515 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

A demultiplexer is a device that

#### **Options:**

Encode multiple inputs into one output

Decode binary to decimal

3. Store binary information

Route a single input to multiple outputs

Question Number: 104 Question Id: 89040114516 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

Convert the binary number 110011 into its decimal equivalent.

# **Options:**

- 1. \* 49
- 2. 🗸 51
- 3. \* 53
- 4. \* 55

Question Number: 105 Question Id: 89040114517 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

# Correct Marks: 1 Wrong Marks: 0 The number of select lines required for an 8-to-1 multiplexer is? **Options:** 1. \* 2 2. 🗸 3 3. \* 5 4. \* 8 Question Number: 106 Question Id: 89040114518 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 . A Sequential logic circuit that toggles its output state on each clock pulse is **Options:** SR flip-flop 2. D flip-flop 3. \* JK flip-flop 4 V T flip-flop

Question Number: 107 Question Id: 89040114519 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Correct Marks : 1 Wrong Marks : 0

Convert the decimal number 108 into its octal equivalent.

- 1. \* 124
- 2. \*\*

- 3. \* 144
- 4. 🗸 154

 $Question\ Number: 108\ Question\ Id: 89040114520\ Question\ Type: MCQ\ Option\ Shuffling: No$ 

**Display Question Number: Yes** 

**Correct Marks: 1 Wrong Marks: 0** 

What is the simplified form of the Boolean expression (A + B)(A + C)?

#### **Options:**

- A + B + C
- 2. **\*** AB+C
- 3. \* AC+BC
- 4. ✓ A+ BC

Question Number: 109 Question Id: 89040114521 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

What is the primary purpose of a Software Requirements Specification (SRS) document?

- To define the coding standards
- 2. \* To outline the software design
- To describe the functional and non-functional requirements

To test the software

Question Number: 110 Question Id: 89040114522 Question Type: MCQ Option Shuffling: No

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The second phase of a waterfall model is

#### **Options:**

1. \* Requirement gathering

2. Design

3. \* Implementation

Verification

 $\label{eq:Question Number: MCQ Option Shuffling: No Question Type: MCQ Option Shuffling: MCQ Optio$ 

**Display Question Number : Yes** 

Correct Marks : 1 Wrong Marks : 0

In which phase of SDLC is the feasibility study conducted?

#### Options:

1. ✓ Planning

Implementation

Testing 3. \*

4. \* Maintenance

Question Number: 112 Question Id: 89040114524 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 In Agile development, which methodology uses sprints? **Options:** 1. \* Kanban 2. Scrum 3. Waterfall Spiral Question Number: 113 Question Id: 89040114525 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 Which testing level focuses on individual components or modules of the software? **Options:** Unit Testing 2. System Testing Integration Testing 4. \* Validation Testing

Question Number: 114 Question Id: 89040114526 Question Type: MCQ Option Shuffling: No

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is an advantage of the Incremental Model?

- Complete product is delivered at once
- Allows early detection of errors
- Does not support customer feedback
- Requires no planning

Question Number: 115 Question Id: 89040114527 Question Type: MCQ Option Shuffling: No

Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0

Which of the following best describes debugging?

#### **Options:**

- The process of writing code
- Running a program without any issues
- Adding new features to a program
- Identifying and fixing errors in a program

Question Number: 116 Question Id: 89040114528 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

Which type of requirement deals with performance, reliability, and security?

# **Options:**

Functional Requirements

2. 💥

# System Requirements 3. ✓ Non-Functional Requirements 4. \* Business requirements Question Number: 117 Question Id: 89040114529 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Correct Marks: 1 Wrong Marks: 0 Which register holds the address of the next instruction to be executed? Options:

- 1. \* Instruction Register (IR)
- Memory Address Register (MAR)
- 3. Program Counter (PC)
- 4. Stack Pointer (SP)

Question Number: 118 Question Id: 89040114530 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Which memory holds frequently accessed data for fast retrieval?

- 1. Cache
- 2. ROM
- 3. \*\* RAM

4. \* Hard Drive

Question Number: 119 Question Id: 89040114531 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

The 8086 microprocessor has how many address lines?

#### **Options:**

- 1. \* 16
- 2. 🗸 20
- 3. \* 24
- 4. \* 32

 $Question\ Number: 120\ Question\ Id: 89040114532\ Question\ Type: MCQ\ Option\ Shuffling: No$ 

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

The primary purpose of an interrupt in a microprocessor is to \_\_\_\_\_\_.

#### **Options:**

- 1. \* Execute instructions faster
- 2. \* Control memory access
- 3. \* Organize Registers
- → Handle I/O operations efficiently

Question Number: 121 Question Id: 89040114533 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** Correct Marks: 1 Wrong Marks: 0 Which of the following is a volatile memory? **Options:** 1. × RAM 2. **\*** ROM 3. \* Hard Disk Flash Drive Question Number: 122 Question Id: 89040114534 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 The size of the general-purpose registers in the 8086 microprocessor is ... **Options:** 1. \* 8 bits 2. **✓** 16 bits 3. **3** bits 4. \* 64 bits Question Number: 123 Question Id: 89040114535 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0

Which component of the CPU coordinates all activities inside it?

1. * ALU		
2. ✔ Control Unit		
Register File		
4. * Cache		
Question Number : 12 Display Question Num Correct Marks : 1 Wro	nber : Yes	uestion Type : MCQ Option Shuffling : No
What is the result of	the binary addition: $1101 + 1$	010?
Options :		
1. <b>✓</b> <sup>10111</sup>		
2. * 10011		
3. * 11110		
4. * 11000		
Question Number : 12 Display Question Num Correct Marks : 1 Wro	nber : Yes	uestion Type : MCQ Option Shuffling : No
The Carry Flag (CF)	is set when	
Options :		
1. * The result is neg	gative	
2. * An arithmetic op	peration results in a zero valu	ė

A division operation produces a remainder An arithmetic operation results in a carry out of the most significant bit Question Number: 126 Question Id: 89040114538 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 In two's complement representation, which statement is true? **Options:** The MSB (Most Significant Bit) is always 0 The MSB determines the sign of the number Addition does not require special handling Two's complement is not used in modern computers Question Number: 127 Question Id: 89040114539 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 Which of the following is NOT a type of addressing mode in microprocessors? **Options:** Immediate 2. W Direct 3. \* Indirect 4. ✓ Sequential

Question Number: 128 Question Id: 89040114540 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Which of the following is a type of ROM that can be programmed only once?

#### **Options:**

- 1. ✓ PROM
- EPROM
- EEPROM
- Flash Memory

Question Number: 129 Question Id: 89040114541 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Which data structure uses the FIFO (First In, First Out) principle?

#### Options:

- 1. \* Stack
- 2. ✓ Queue
- 3. \* Linked List
- 4. \* Tree

Question Number: 130 Question Id: 89040114542 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

**Correct Marks: 1 Wrong Marks: 0** 

What is the time complexity of Binary Search on a sorted array? **Options:** 1. \* O(n) 2. \* O(n log n) 3. ✓ O(log n) 4. × O(1) Question Number: 131 Question Id: 89040114543 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 Which operation in a queue removes an element? **Options:** Push 2. \* Pop Enqueue Dequeue 4. ✔ Question Number: 132 Question Id: 89040114544 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 Which one of the following is NOT a linear data structure? **Options:** 1. \* Array

2. Stack Queue 4. Tree Question Number: 133 Question Id: 89040114545 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 In Selection Sort, which element is selected at each step while sorting the elements in ascending order? **Options:** The largest element The Smallest element The Middle element Any Random element Question Number: 134 Question Id: 89040114546 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 What type of data structure is used in recursion? **Options:** 1. Stack

Queue

Tree 4. \* Linked List Question Number: 135 Question Id: 89040114547 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 Which sorting algorithm is based on the divide-and-conquer principle? **Options: Bubble Sort** Selection Sort 3. ✓ Merge Sort Insertion Sort Question Number: 136 Question Id: 89040114548 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 Which one is not a dynamic data structure? **Options:** 1. Array Stack Queue 4. 💥

#### Linked List

 ${\bf Question\ Number: 137\ Question\ Id: 89040114549\ Question\ Type: MCQ\ Option\ Shuffling: None of the Control of the Cont$ 

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

What is the time complexity of deleting an element from the beginning of a linked list?

#### **Options:**

Question Number: 138 Question Id: 89040114550 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Which of the following sorting algorithms is the most efficient in the average case?

- 1. \* Bubble Sort
- 2. \* Selection Sort
- Quick Sort
- Insertion Sort

Question Number: 139 Question Id: 89040114551 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Which OSI layer is responsible for end-to-end communication?

#### Options:

- 1. Transport
- 2. \*\* Network
- 3. \* Data Link
- 4. \* Physical

Question Number: 140 Question Id: 89040114552 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks : 1 Wrong Marks : 0

What is the default subnet mask for a Class B IP address?

# Options:

- 255.0.0.0
- 2 255.255.0.0
- 255.255.255.0
- 4 **2** 255.255.255.255

Question Number: 141 Question Id: 89040114553 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

What is the main function of a router?

Signal Amplification  1. **
Collision Avoidance
3. * Frame Filtering
Packet Switching 4. ✓
Question Number : 142 Question Id : 89040114554 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0
The primary purpose of an IP address is to
Options :
1. ✓ Identify devices on a network
2. * Authenticate users
Encrypt Data 3. **
Manage network protocols 4. **
Question Number : 143 Question Id : 89040114555 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0
Which protocol operates at the Transport Layer of the OSI model?
Options :
1. * IP
2. ✓ TCP

- 3. \* ARP
- 4. ICMP

Question Number: 144 Question Id: 89040114556 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Which statement best describes a Metropolitan Area Network (MAN)?

#### **Options:**

- A network that covers a small geographic area, such as a single building
- A network that spans a large geographical area, such as a country
- A network that connects multiple LANs within a city
- A wireless network providing access to mobile users

 ${\bf Question\ Number: 145\ Question\ Id: 89040114557\ Question\ Type: MCQ\ Option\ Shuffling: None of the Control of the Cont$ 

Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0

Which network model is based on direct connections between computers without a central server?

#### Options:

Client-Server Model

- 2. Peer-to-Peer Model
- Hybrid Network Model
- 4. \*\*

#### Cloud Computing Model

Question Number: 146 Question Id: 89040114558 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Which protocol is used to resolve IP addresses to MAC addresses?

#### **Options:**

1. ARP

RARP

3. **\*** ICMP

DHCP

Question Number: 147 Question Id: 89040114559 Question Type: MCQ Option Shuffling: No

Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0

What is the primary function of the MAC address?

#### Options:

Identify devices on a network locally

Define network topology

3. \* Provide internet access

4. \* Encrypt network traffic

Question Number: 148 Question Id: 89040114560 Question Type: MCQ Option Shuffling: No

Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0
Which layer of the OSI model is responsible for error detection and correction?
Options :
1. * Physical
Data Link 2. ✓
3. * Session
Application 4. *
Question Number : 149 Question Id : 89040114561 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0
is a device used to amplify and retransmit network signals.
is a device used to amplify and retransmit network signals.
is a device used to amplify and retransmit network signals.  Options:
is a device used to amplify and retransmit network signals.  Options:
is a device used to amplify and retransmit network signals.  Options:  Router  Switch  Bridge
is a device used to amplify and retransmit network signals.  Options:  Router  Switch
is a device used to amplify and retransmit network signals.  Options:  1. ** Router  2. ** Switch  Bridge  3. **

To convert IPv4 addresses into IPv6 To encrypt network communication To reduce network congestion and improve efficiency To multicast Packets Question Number: 151 Question Id: 89040114563 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 Which scheduling algorithm gives each process an equal share of CPU time? **Options: FIFO** 2. A Round Robin Priority Scheduling Shortest Job Next Question Number: 152 Question Id: 89040114564 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 What is the purpose of a page table?

**Options:** 

2. 💥

Store file metadata

Track free memory
Manage CPU scheduling 3. **
Map logical to physical addresses  4.   ✓
Question Number : 153 Question Id : 89040114565 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0
Excessive swapping between memory and disk in an OS is referred to as
Options:  High CPU usage  1. **
Network congestion 2. **
Thrashing 3. ✓
Memory fragmentation 4. **
Question Number : 154 Question Id : 89040114566 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0
The Process Control Block (PCB) contains which of the following information?
Options :
1. ✓ Process ID and process state
Memory addresses of all system files

3. 🗱

# Network configuration settings

CPU scheduling algorithms

Question Number: 155 Question Id: 89040114567 Question Type: MCQ Option Shuffling: No

Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0

What does the term 'context switching' refer to in an OS?

#### **Options:**

- Switching between different networks
- Switching the CPU from one process to another
- Changing the user interface mode
- Allocating additional memory to a process

Question Number: 156 Question Id: 89040114568 Question Type: MCQ Option Shuffling: No

Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0

What is a critical section in process synchronization?

- A protected area of memory
- 2. **¾** An I/O buffer
- A process scheduler
- 3. \*
- 4. 🗱

## A cache memory section

Question Number: 157 Question Id: 89040114569 Question Type: MCQ Option Shuffling: No

Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0

Which component of an operating system provides an interface for users to access its services?

## **Options:**

Device drivers

2. \* Libraries

System Calls 3. ✔

Process Control Block

 ${\bf Question\ Number: 158\ Question\ Id: 89040114570\ Question\ Type: MCQ\ Option\ Shuffling: None of the Control of the Cont$ 

Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0

Which page replacement algorithm suffers from Belady's anomaly?

#### **Options:**

Optimal

2. FIFO

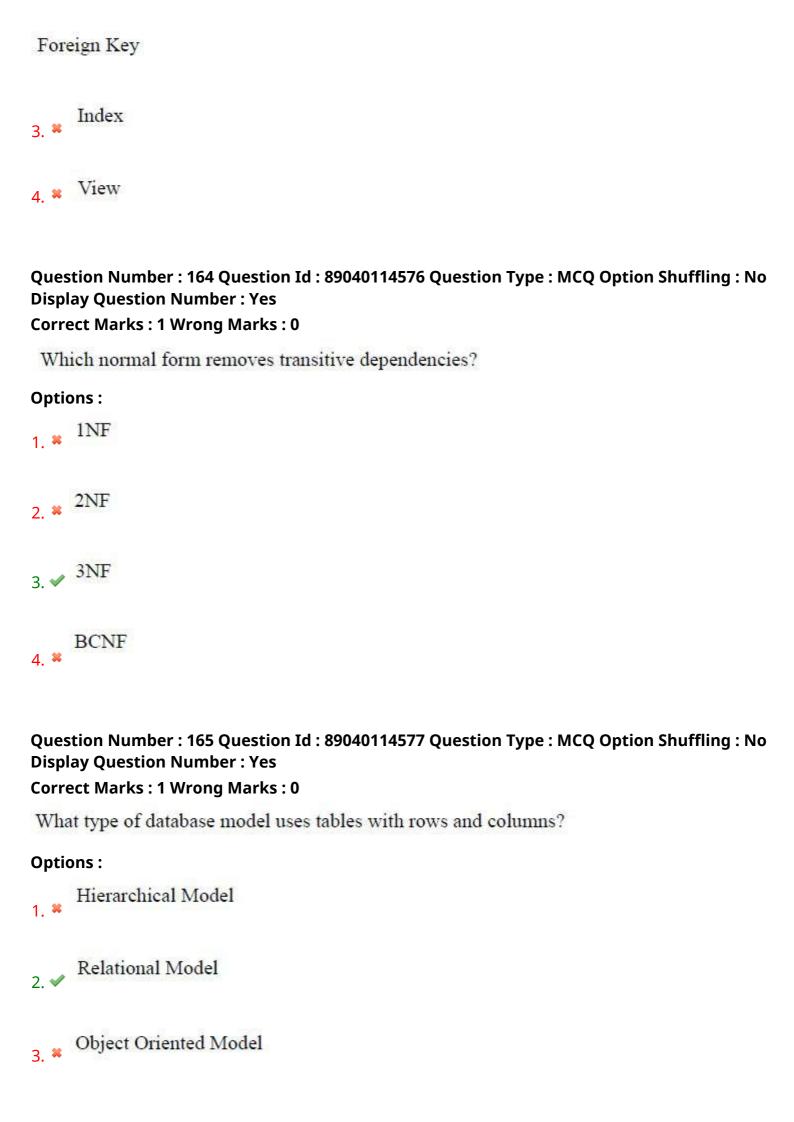
3. \* LRU

4. \* LFU

Question Number : 159 Question Id : 89040114571 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0
Which issue in process synchronization is prevented by using a semaphore?
Options:
1. * CPU scheduling
2. ✓ Deadlocks
Memory Fragmentation  3. **
Page Faults 4. **
Question Number: 160 Question Id: 89040114572 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Correct Marks: 1 Wrong Marks: 0 What is the main function of the operating system's scheduler?
Options:
To manage memory allocation
To manage file systems
3. ✓ To manage CPU time for processes
To handle I/O operations 4. **
Question Number: 161 Question Id: 89040114573 Question Type: MCQ Option Shuffling: No Display Question Number: Yes  Correct Marks: 1 Wrong Marks: 0

Paging involves breaking physical memory into fixed-sized blocks called \_\_\_\_\_\_.

## **Options:** 1. Frames Segments Pages 4. \* Blocks Question Number: 162 Question Id: 89040114574 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 The interval from the time of submission of a process to the time of completion is the **Options:** Throughput 2. Turnaround time 3. \* Waiting time Response time Question Number: 163 Question Id: 89040114575 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 Which of the following ensures referential integrity in a relational database? **Options:** Primary Key 2. 🗸



4. \* Network Model

Question Number: 166 Question Id: 89040114578 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Which of the following is NOT a valid PL/SQL control statement?

#### **Options:**

1. \* IF-THEN-ELSE

2. CASE

3. × LOOP

4. ✓ SWITCH

Question Number: 167 Question Id: 89040114579 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

What is the purpose of the HAVING clause in SQL?

## **Options:**

To filter groups based on a condition

To filter rows based on a condition

To sort the result set

4. \* To join tables

Question Number: 168 Question Id: 89040114580 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 Which of the following SQL statements contains an error? **Options:** Select \* from emp where empid = 1003; Select empid from emp where empid = 1002; 2. 💥 Select empid from emp; Select ALL from emp where empid = 1001; Question Number: 169 Question Id: 89040114581 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 is not a DDL command. **Options:** 1. ALTER 2. UPDATE 3. DROP 4. \* TRUNCATE Question Number: 170 Question Id: 89040114582 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** 

**Options:** 

Correct Marks: 1 Wrong Marks: 0

Which of the following is a key characteristic of NoSQL databases?

Fixed schema Relational data model Scalability and flexibility Only supports structured data Question Number: 171 Question Id: 89040114583 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 Which of the following is NOT a NoSQL database type? Options: Document-based Key-Value Store 3. \* Graph-based 4. Relational Question Number: 172 Question Id: 89040114584 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 What is the purpose of normalization in a relational database? **Options:** To increase data redundancy 1. 💥

2. \*\*

## To decrease performance

- To store all data in a single table 3. \*
- To eliminate data redundancy and improve integrity

Question Number: 173 Question Id: 89040114585 Question Type: MCQ Option Shuffling: No

Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0

Which of the following is not a principle of Object-Oriented Programming?

#### **Options:**

- 1. \* Encapsulation
- 2. ✓ Interfaces
- Abstraction
- 4. \* Polymorphism

Question Number: 174 Question Id: 89040114586 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Which keyword is used to define an object in C++?

- 1. \* create
- 2. **✓** new
- 3. \* object

```
4. acall
```

Static Constructor

Question Number: 175 Question Id: 89040114587 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 What is the output of the following code snippet? #include <iostream> using namespace std; int main() { int x = 5: int y = x++; cout << y; return 0; } **Options:** 1. 🗸 5 2. \* 6 3. \*\* 0 4. \* Compilation error Question Number: 176 Question Id: 89040114588 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 Which of the following is NOT a type of constructor in C++? **Options:** 1. \* Copy Constructor **Default Constructor** 

Parameterized Constructor

 $Question\ Number: 177\ Question\ Id: 89040114589\ Question\ Type: MCQ\ Option\ Shuffling: No$ 

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Which of the following operators cannot be overloaded?

## Options:

1. 🗸 ።

2 \* =

ર 💥

4. \* =

 $Question\ Number: 178\ Question\ Id: 89040114590\ Question\ Type: MCQ\ Option\ Shuffling: No$ 

**Display Question Number : Yes** 

Correct Marks : 1 Wrong Marks : 0

What is the correct syntax for declaring a pure virtual function in C++?

## Options:

void virtual show () = 0

2. \* void show () virtual

3.  $\checkmark$  virtual void show () = 0

4. \* pure virtual void show ()

Question Number: 179 Question Id: 89040114591 Question Type: MCQ Option Shuffling: No

Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0

What is the purpose of the *endl* manipulator in C++?

### **Options:**

- It only moves the cursor to the next line.
- It only flushes the output buffer.
- It moves the cursor to the next line and flushes the output buffer.
- It inserts a tab space in the output.

 ${\bf Question\ Number: 180\ Question\ Id: 89040114592\ Question\ Type: MCQ\ Option\ Shuffling: None of the property of the pro$ 

Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0

What will be the output of the following code?

```
#include <iostream>
using namespace std;
int main() {
  int a = 10;
  int *ptr = &a;
  cout << *ptr;
  return 0;
}</pre>
```

- 1. \* Address of a
- 2. 🗸 10
- 3. \* 0
- 4. \* Compilation error

Question Number: 181 Question Id: 89040114593 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks : 1 Wrong Marks : 0

What is the main purpose of templates in C++?

## **Options:**

To improve runtime performance

To speed up program execution

To enable function overriding

To define functions and classes that can operate on different data types

Question Number: 182 Question Id: 89040114594 Question Type: MCQ Option Shuffling: No

Display Question Number : Yes

Correct Marks: 1 Wrong Marks: 0

What is the meaning of encapsulation in Object Oriented Programming?

#### **Options:**

Avoiding class usage

Using only public methods

Allowing global access to variables

Hiding implementation details

Question Number: 183 Question Id: 89040114595 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Which keyword is used to define a constant in Java? **Options:** 1. ✓ final const 3. \* static 4. \* volatile Question Number: 184 Question Id: 89040114596 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 Which of the following is a valid declaration of a Java array? **Options:** int arr[] = new int[]; 2. \* int arr = new int[5]; 3. **✓** int arr[] = new int[5]; int arr[] = new int(5);Question Number: 185 Question Id: 89040114597 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 is a collection of classes and interfaces. **Options:** Object

# Collection Package 4. \* Array Question Number: 186 Question Id: 89040114598 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 What is the purpose of the super keyword in Java? **Options:** To refer to the superclass object To refer to the current object To define a constant To allocate memory dynamically Question Number: 187 Question Id: 89040114599 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 Which of the following is NOT an event class in Java? **Options:** FocusEvent **ItemEvent**

```
LayoutEvent 3. ✔
4. * ActionEvent
Question Number: 188 Question Id: 89040114600 Question Type: MCQ Option Shuffling: No
Display Question Number: Yes
Correct Marks: 1 Wrong Marks: 0
Which of the following is the superclass of all exceptions in Java?
Options:
1 * Error
2. ✓ Throwable
3. * ArthimeticException
    Exception
Question Number: 189 Question Id: 89040114601 Question Type: MCQ Option Shuffling: No
Display Question Number: Yes
Correct Marks: 1 Wrong Marks: 0
Which method is used to display output of an applet?
Options:
show()
2. * run()
3. ✓ paint()
4. * print ( )
```

Question Number: 190 Question Id: 89040114602 Question Type: MCQ Option Shuffling: No **Display Question Number: Yes** Correct Marks: 1 Wrong Marks: 0 What will be the output of the following Java program? class Output public static void main(String args[]) int arr[] =  $\{1, 2, 3, 4, 5\}$ ; for (int i = 0; i < arr.length - 2; ++i) System.out.println(arr[i] + " "); } } **Options:** 1. \* 1 2 2. 1 2 3 3. \* 1 2 3 4 4. \* 1 2 3 4 5

 ${\bf Question\ Number: 191\ Question\ Id: 89040114603\ Question\ Type: MCQ\ Option\ Shuffling: None of the Control of the Cont$ 

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Which of the following is a valid way to create a thread in Java?

- 1. Implementing the Runnable interface
- Calling the run() method directly
- Using the Callable interface
- 4. \* Implementing the java class

Question Number: 192 Question Id: 89040114604 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

Which of the following is the top-level container in AWT?

### **Options:**

- Panel
- 2. \* Label
- Button
- 4. Frame

Question Number: 193 Question Id: 89040114605 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

Correct Marks: 1 Wrong Marks: 0

What is the correct way to refer to an external CSS file?

#### **Options:**

- style src="styles.css">
- 2. \* <css>styles.css</css>
- 3. ✓ 3. ✓ link rel="stylesheet" href="styles.css>
- 4. \* <stylesheet>styles.css</stylesheet>

Question Number: 194 Question Id: 89040114606 Question Type: MCQ Option Shuffling: No

**Display Question Number: Yes** 

## Correct Marks: 1 Wrong Marks: 0

Which of the following is a client-side scripting language?

#### **Options:**

- Java
- 2. ✓ JavaScript
- Ruby
- 4. PERL

Question Number: 195 Question Id: 89040114607 Question Type: MCQ Option Shuffling: No

Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0

Which HTML tag is used to insert an image?

## **Options:**

- <img url="htmllogo.jpg"/>
- <img alt="htmllogo.jpg"/>
- 3. ✓ <img src="htmllogo.jpg"/>
- 4. \* <img link="htmllogo.jpg"/>

Question Number: 196 Question Id: 89040114608 Question Type: MCQ Option Shuffling: No

**Display Question Number : Yes** 

Correct Marks: 1 Wrong Marks: 0

Which of the following is not a JavaScript data type?

```
1. String
2. * Boolean
     Float
4. * Object
Question Number: 197 Question Id: 89040114609 Question Type: MCQ Option Shuffling: No
Display Question Number: Yes
Correct Marks: 1 Wrong Marks: 0
What does XML stand for?
Options:
    Extra Markup Language
2. ZExtensible Markup Language
3. * Example Markup Language
    Executable Markup Language
Question Number: 198 Question Id: 89040114610 Question Type: MCQ Option Shuffling: No
Display Question Number: Yes
Correct Marks: 1 Wrong Marks: 0
Which jQuery function is used to make an element invisible?
Options:
1. • hide ( )
    remove ()
```

```
notDisplay ()
    invisible ()
4. **
Question Number: 199 Question Id: 89040114611 Question Type: MCQ Option Shuffling: No
Display Question Number: Yes
Correct Marks: 1 Wrong Marks: 0
What is the purpose of the echo statement in PHP?
Options:
1. * store data in a database
2. * execute JavaScript code
display output on a webpage
4. ▼ To comment on code
Question Number: 200 Question Id: 89040114612 Question Type: MCQ Option Shuffling: No
Display Question Number: Yes
Correct Marks: 1 Wrong Marks: 0
Which PHP function is used to redirect a page?
Options:
     redirect ()
e header()
navigate()
```

gotoPage ( )