# **Question Paper Preview**

**Question Paper Name: BSc Mathematics Subject Name:** BSc Mathematics

Mathematics

Number of Questions: 100 Display Number Panel: Yes Group All Questions: No

Question Number: 1 Question Id: 6780949405 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

The family of the straight lines passing through the origin is represented by the differential equation \_\_\_\_\_

**Options:** 

$$\int_{\mathbb{R}^n} dx - x dy = 0$$

$$\int_{\mathbb{R}^n} y dx - x^2 dy = 0$$

$$\int_{\mathbb{R}^n} x dy - y dx = 0$$

$$\int_{3.}^{3} x dy - y dx = 0$$

$$\int_{4.}^{2} x^2 dx - x^2 dy = 0$$

Question Number: 2 Question Id: 6780949406 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

The integrating factor of  $x \frac{dv}{dx} = -x - 4$  is

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

$$\gamma = \Lambda^{2}$$

$$3^{-3}$$

$$_{4}$$
  $X$ 



Question Number: 3 Question Id: 6780949407 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The differential equation ydx - 2xdy = 0 represents a family of

**Options:** 

- , Circles
- ু Parabolas
- <sub>3</sub> Ellipses
- Straight lines

Question Number: 4 Question Id: 6780949408 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The solution of  $\frac{dy}{dx} + \frac{y}{x} = x^2$ , y = 1 when x = 1, is \_\_\_\_\_

**Options:** 

$$4xy = y^4 + 3$$

$$2. 4xy - y^4 = c$$

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

$$y^4 - 4xy = c$$

Question Number: 5 Question Id: 6780949409 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The solution of the differential equation  $xdy - ydx - 2x^3dx = 0$  is

**Options:** 

$$y + x^3 = cx$$

$$\int \mathcal{X}_3 - \mathcal{A}_3 = C\mathcal{X}$$

$$x - x^2 = cx$$

$$x^3 - x^3 = cx$$

Question Number : 6 Question Id : 6780949410 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The general solution of  $p^2x^2 = y^2$  is \_\_\_\_\_



$$(y - xc)(y - xc) = 0$$

$$(y - cx)(xy - c) = 0$$

$$(y + cx)(xy - c) = 0$$

$$(x - yc)(y + xc) = 0$$

Question Number: 7 Question Id: 6780949411 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following is the general solution of  $y = x \frac{dy}{dx} + \left(\frac{dy}{dx}\right)^2$ 

**Options:** 

$$x = cx + c^2$$

$$y = \frac{c}{x} - c^2$$

$$y = c + xc^{\frac{1}{2}}$$

$$y = c - cx^2$$

Question Number: 8 Question Id: 6780949412 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The singular solution of  $\left(\frac{dv}{dx}\right)^2 - x\left(\frac{dy}{dx}\right) - y = 0$  is \_\_\_\_\_

**Options:** 

$$\chi^2 - 4\chi = 0$$

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

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

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

Question Number: 9 Question Id: 6780949413 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The solution of  $y-2px=-px^2$  is \_\_\_\_\_



$$(y - c)^2 = 4cx$$

$$y - c = 4x$$

$$\left(x-c\right)^{2}=4cy$$

$$(x-c)^2 = 4cy$$

Question Number: 10 Question Id: 6780949414 Display Question Number: Yes Single Line Question Option: No Option Orientation : Vertical

The solution of  $\frac{dx}{dt} = \frac{dy}{-x} = \frac{dz}{2x - 3y}$  is \_\_\_\_\_

**Options:** 

$$x^{2} - y^{2} = c_{1} \cdot 2x + 3y - z = c_{2}$$

$$x^2 - x^2 = c_1 \cdot 3x - 2x - z = c_2$$

$$x^2 - y^2 = c_1.3x + 2y - z = c_2$$

$$x^2 - y^2 = c_1 \cdot 2x + 3y - z = c_2$$

Question Number: 11 Question Id: 6780949415 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

The particular integral of  $(D^4 - 1)y = \cos x$  is \_\_\_\_\_

**Options:** 

$$\frac{x}{17}(4\sin x + \cos x)$$

$$-\frac{x}{17}(4\sin x - \cos x)$$

$$-\frac{x}{17}(4\sin x + \cos x)$$

$$\frac{x}{1-(4\sin x - \cos x)}$$

 $\frac{x}{17}(4\sin x - \cos x)$ 

Question Number: 12 Question Id: 6780949416 Display Question Number: Yes Single Line Orientation : Vertical

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The particular integral of  $(D^3 + a^2D)y = \sin ax$  is \_\_\_\_\_

**Options:** 

$$\frac{x}{2}\cos ax$$

$$\int_{2}^{\infty} \frac{x}{2a} \cos ax$$

$$\int_{0}^{\infty} \sin dX$$

$$\frac{x}{2a}\sin ax$$

Question Number: 13 Question Id: 6780949417 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

The two linearly independent solutions of the differential equation.

$$x^{2}y'' - xy' - y = 0$$
 are \_\_\_\_\_

**Options:** 

$$\int_{1}^{2} x^{2} x^{2}$$

1. 
$$x_{1} x^{2}$$

$$= x_{1} x^{2}$$

$$= x_{1} x^{-2}$$
3.

$$\begin{array}{ccc}
 & \chi, & \frac{1}{4} \\
 & \chi & \end{array}$$
3.

$$X$$
,  $X^H$ 

Question Number: 14 Question Id: 6780949418 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

If y = x is a solution of  $x^2y'' - xy' - y = 0$  then the second linearly independent solution of the above equation is \_\_\_\_

$$\chi = \chi^{\frac{1}{2}}$$

$$x^2$$

$$_{A}$$
  $\Lambda^{B}$ 



Question Number: 15 Question Id: 6780949419 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

Consider the differential equation  $\frac{d^2y}{dx^2} + 2\frac{dy}{dx} + y = 0$  with boundary conditions y(0) = 1 and y(1) = 0 The value of y(2) is \_\_\_\_\_\_

### **Options:**

$$-\frac{1}{c}$$

$$-\frac{1}{e^2}$$

Question Number: 16 Question Id: 6780949420 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

Particular integral of  $(D^2 - 2D + 1)y = 3^x$  is \_\_\_\_\_

### **Options:**

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

$$\frac{3^N}{(1-\log 3)^2}$$

$$\frac{3^{3}}{71 + 1\cos 30}$$

$$\frac{3^{N}}{(1+\log 3)}$$

Question Number: 17 Question Id: 6780949421 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

The particular integral of the differential equation  $\frac{d^2y}{dx^2} - y = a^x$  is \_\_\_\_\_

$$(\log a)^2 - 1$$



$$_3 - a^X$$

$$\frac{a^{N}}{(\log a)^{2}-1}$$

Question Number: 18 Question Id: 6780949422 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The solution of the total differential equation.

ye log 
$$zdx - zx \log zdy - xydz = 0$$
 is

**Options:** 

$$\int \log x = cv$$

$$x\log z = cy$$

$$\int f_{1} \int d\tilde{a} \, d\tilde{a} \, d\tilde{a} = GX$$

$$\int \log y = cx$$

Question Number: 19 Question Id: 6780949423 Display Question Number: Yes Single Linc Question Option: No Option Orientation: Vertical

Particular integral of  $(D^2 - 4)v = \cos(2x - 1)$  is

**Options:** 

$$\frac{-x\cos(2x-1)}{1}$$

$$-\frac{x}{4}\sin(2x-1)$$

$$x \cos(2x-1)$$

$$-x\sin(2x-1)$$

Question Number: 20 Question Id: 6780949424 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The value of  $\frac{1}{D-1}e^{X}\log x = \underline{\qquad}$ 

$$e^{-x}(x\log x - 1)$$

$$e^{x}(x\log x-1)$$

$$e^{x}(x \log x + i)$$



 $e^{-x}(x\log x - 1)$ 

Question Number: 21 Question Id: 6780949425 Display Question Number: Yes Single Linc Question Option: No Option Orientation: Vertical

If  $e^{(2+2i)x}$  is a solution of the differential equation y'' - ay' - by = 0, where a and b are real, then

**Options:** 

- a = 4, b = -5
- a = -4.b = 5
- a = -4.b = 8
- a = 4, b = 8

Question Number: 22 Question Id: 6780949426 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If P is an odd prime then  $\phi(2P) = \underline{\hspace{1cm}}$  where  $\delta$  is an Euler totient function

**Options:** 

- 1 P
- $_{\gamma}|P^{2}$
- $_{\gamma}$   $/\!\!/(P)$
- $_{4}^{2}P$

Question Number: 23 Question Id: 6780949427 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If a be an element in a group such that O(a) = 20 then  $O(a^6) = \underline{\hspace{1cm}}$ 

**Options:** 

- 1. 5
- ว วบ
- ੍ਰ 20
- a 7

Question Number: 24 Question Id: 6780949428 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The number of subgroups of a  $(Z_{ii}, \div_{ii})$  is \_\_\_\_\_

**Options:** 

, 0



11 4.
Question Number : 25 Question Id : 6780949429 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
If G is a cyclic group such that $O(G) = 48$ —then the number of proper subgroups of G is
Options :
1. 3
$\frac{4}{2}$
3. 7
4. 8
Question Number : 26 Question Id : 6780949430 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
The generators of a cyclic group of order ( $G = \{1, 2, 3, 4, 5, 6\}, x_7\}$ are
Options: 2 and 3
2. 4 and 5
3. 3 and 5
4. 3 and 4
Question Number : 27 Question Id : 6780949431 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
If $O(G)=65,\ O(H)=13$ then the number of distinct left cosets of $H$ in $G$ is
Options :
1. 4
<u>5</u>
3. 6
4. 7
Question Number : 28 Question Id : 6780949432 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
If $f:G  o G'$ is an onto homomorphism with kernel $K$ , then
Options:
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$$\frac{G}{K} \cong G'$$

$$\frac{K}{G} \cong G$$

$$\frac{K}{G} \cong K$$

$$\frac{G}{K} \cong K$$

Question Number: 29 Question Id: 6780949433 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If  $\phi$  is a group homomorphism from  $Z_{14}$  onto  $Z_8$  then  $Kanad (\phi) = \underline{\hspace{1cm}}$ 

### **Options:**

- $\{0, 2, 8\}$
- $\{0, 4.16\}$
- {0.2.16}
- (0.8.16)

Question Number: 30 Question Id: 6780949434 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following is NOT CORRECT?

### **Options:**

Every subgroup of an abelian group is normal

Every abelian group of composite order possesses a proper normal subgroup

Every group of prime order has proper normal subgroups

The intersection of any two normal subgroups of a group is a normal subgroup.

Question Number: 31 Question Id: 6780949435 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If  $\overline{a}$  and  $\overline{b}$  are two arbitrary vectors with magnitudes a and b respectively then  $|\overline{a}|^2$  will be equal to \_\_\_\_



$$a^2b^2 - (\bar{a}, \bar{b})^2$$

$$ab - \overline{a} \cdot \overline{b}$$

$$a^2b^2 - (\bar{a} \cdot \bar{b})^2$$

$$ab\pm \overline{a}$$
 ,  $\overline{b}$ 

Question Number: 32 Question Id: 6780949436 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

The derivative of the vector field  $3\pi i - 2\pi i - 2\pi i = \sqrt{2k}$  at (1.1.1) is \_\_\_\_\_

**Options:** 

Question Number: 33 Question Id: 6780949437 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

$$\nabla^2 \{ \vec{r}^n \} = \underline{\qquad}$$
 where  $r = |\vec{R}|$ ,  $\vec{R} = x\vec{i} + y\vec{j} - z\vec{k}$ .

**Options:** 

- 3.  $n(n+1)r^{n-2}$   $4. n(n-1)r^{n-2}$

Question Number: 34 Question Id: 6780949438 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

The directional derivative of  $\phi = x^{\frac{1}{2}} + y^{\frac{1}{2}} + z^{\frac{1}{2}}$  at (1.1,1) in the direction of i-k is



Question Number: 35 Question Id: 6780949439 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The value of  $\lambda$  for which the vector field

$$\overline{V} = (x+3y)\overline{t} + (y-2z)\overline{f} - (x-\lambda z)\overline{k}$$
 is solenoidal

**Options:** 

- 1. 0
- <sub>3</sub> 2
- <sub>2</sub> –2
- 4

Question Number: 36 Question Id: 6780949440 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The maximum value of the directional derivative of the function

$$\phi = 2x^2 + 3y^2 + 5z^2$$
 at a point (1.7-1) is\_\_\_\_\_

**Options:** 

- 1. 10
- ~ **-**4
- $\sqrt{152}$
- 4. 152 4.

Question Number: 37 Question Id: 6780949441 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If  $\overline{A}$ ,  $\overline{B}$  are two constant vectors then  $grad(\overline{A}\cdot\overline{B})=$ \_\_\_\_\_

**Options:** 

- , 0
- 2
- $\frac{2}{3}$
- . 4

Question Number: 38 Question Id: 6780949442 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If F(t) has a constant direction, then

$$F \cdot \frac{dF}{dt} = 0$$



$$F \times \frac{dF}{dt} = 0$$

$$F \cdot \frac{dF}{dt} = \text{constant}$$

$$F \cdot \frac{dx}{dt} = \text{consta}$$

$$F: \frac{dF}{dt} = F$$

Question Number: 39 Question Id: 6780949443 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

The relationship among the three vectors i-j+k. 2i+3j+k and 5i+6j-4k. İŞ.

### **Options:**

- The vectors are mutually perpendicular
- The vectors are linearly independent
- The vectors are linearly dependent
- The vectors are unit vectors

Question Number: 40 Question Id: 6780949444 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

The vector field  $\overline{F} = xi - yj$  (where i and j are unit vectors) is

#### **Options:**

- divergence free but not irrotational
- irrotational but not divergence free
- divergence free and irrotational
- neither divergence free nor irrotational

Question Number: 41 Question Id: 6780949445 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

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If S is any closed surface then

$$\int_{S} (\nabla .F) .dS = 0$$

$$\int (\nabla \cap F).dS = 0$$

$$\int_{S} (\nabla \cap F) . dS = 0$$

$$\int_{S} (\nabla F) . dS = 0$$

$$\int_{S} (\nabla \cdot F) . dS = 0$$

Question Number: 42 Question Id: 6780949446 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Given a vector field  $\overline{F}$ , the divergence theorem states that

**Options:** 

$$\int_{S} \overline{F} \cdot \overline{n} dS = \int_{F} (\nabla \cdot \overline{F}) dV$$

1

$$\int_{S} \overline{F} \cdot \overline{n} dS = \int_{F} (\nabla \cdot \overline{F}) dV$$

--

$$\int_{S} \overline{F} \cdot \overline{n} dS = \int_{F} (\nabla \cdot \overline{F}) dV$$

3.

$$\int_{S} \overline{F} \times \overline{n} dS = \int_{V} (\nabla \cdot \overline{F}) dV$$

4. S

Question Number: 43 Question Id: 6780949447 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following is NOT TRUE?

**Options:** 

- The circulation along every closed surface is zero
- Every solinoidal field is conservative
- The flux across every closed surface is zero

In a solinoidal field for which  $\nabla F=0$ , the vector **F** can always be expressed as the curl of a vector **V** 

Question Number: 44 Question Id: 6780949448 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If  $\overline{F}=ax\overline{i}+by\overline{j}+cz\overline{k}$ . Where a,b,c are constants and S is the surface of the unit sphere, then the value of  $\iint_S \overline{F}\cdot \overline{N}dS$  is

**Options:** 

1 0



$$\frac{4\pi}{3}(a+b+c)^2$$

$$\frac{4\pi}{3}(a-b+c)$$

$$\frac{4.7}{3}$$

Question Number: 45 Question Id: 6780949449 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If  $\overline{N}$  is the unit outward drawn normal to any closed surface then  $\int\limits_{\mathbb{T}}div\ \overline{N}dV=$ 

### **Options:**

- , 5
- <sub>2</sub> 2S
- 35
- <sub>4</sub> 0

Question Number: 46 Question Id: 6780949450 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Stoke's theorem connects

### **Options:**

- a line integral and a surface integral
- a surface integral and a volume integral
- a line integral and a volume integral
- gradient of a function and its surface integral

Question Number: 47 Question Id: 6780949451 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The necessary and sufficient condition that the line integral  $\int\limits_C \overline{F} \cdot d\overline{R} = 0$ 

for any closed curve C is that

$$_{1.}\quad \nabla \quad \overline{F}=0$$

$$\nabla \overline{F} \neq 0$$

$$\nabla \cdot \overline{F} = \overline{9}$$



$$\nabla \quad \overline{F} \neq \overline{0}$$

Question Number : 48 Question Id : 6780949452 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The integral  $\oint_C ydx - xdy$ ) is evaluated along the circle  $x^2 - y^2 = \frac{1}{4}$ 

traversed in counter clock wise direction. The integral is equal to ----

### **Options:**

- , 0
- $\frac{-.7}{4}$
- $\frac{\pi}{4}$

Question Number : 49 Question Id : 6780949453 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If  $\overline{F}=x\overline{i}-2y\overline{j}+3z\overline{k}$ , and S is any closed surface enclosing a volume V, then  $\iint_S \overline{F}\cdot \overline{N}dS=$ \_\_\_\_\_

## **Options:**

- 1. V
- <sub>3.</sub> 2V
- ু 3∖
- , 6V

Question Number : 50 Question Id : 6780949454 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The work done in moving a particle in the force field

 $\overline{F} = 3x^2\overline{i} - (2xz - y)\overline{j} - z\overline{k}$ . along the curve defined by

$$x^2 = 4y$$
,  $3x^3 = 8z$  from  $x = 0$  to  $x = 2$  is \_\_\_\_\_\_

- $_{1}$  2
- ્ર ૦
- <sub>2</sub> 4
- <sub>a</sub> 16



Question Number: 51 Question Id: 6780949455 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following points lie on the same side of the plane x - y - z = 2.

**Options:** 

(-1.-1.1) and (1.1.1)

 $_{2}$  (1.-1.1) and (1.1.-1)

 $_{1}$ -1.-1.-1 and  $_{1}$ 1.1.1)

**3.** 

(-1.1.-1) and (1.1.1)

Question Number: 52 Question Id: 6780949456 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The distance between the parallel planes  $\exists x-y+4z+11=0$  and

6x - 2y - 4z - 5 = 0 is

**Options:** 

 $\frac{1}{2\sqrt{14}}$ 

 $\frac{14}{2\sqrt{12}}$ 

 $\frac{2}{\sqrt{14}}$ 

 $\frac{17}{14\sqrt{2}}$ 

Question Number: 53 Question Id: 6780949457 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The lines x = ay - b, z = cy + d and x = a'y + b', z = c'y - d' are perpendicular if

**Options:** 

 $\alpha \alpha' - cc' = 1$ 

aa' + cc' = -1

3. bb' + dd' = 1

bb'-dd'=-1

Question Number: 54 Question Id: 6780949458 Display Question Number: Yes Single Line | Orientation: Vertical



The equation of the plane passing through (1,0,-2) and perpendicular to each of the planes 2x + y + z + 2 = 0 and x + y + z = 3 is \_\_\_\_\_

**Options:** 

$$\lim_{x \to \infty} 2x - y - 3z - 4 = 0$$

$$2x - y - 3z - 4 = 0$$

$$2x - y - 3z + 4 = 0$$
3.

$$_{4} \quad 2x - y - 3z - 4 = 0$$

Question Number: 55 Question Id: 6780949459 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The perpendicular distance from the point (1.2.3) to the line

$$\frac{x-6}{3} = \frac{y-7}{2} = \frac{z-7}{-2}$$
 is \_\_\_\_

**Options:** 

- , 14 units
- 、 4 units
- <sub>2</sub> 7 units
- ្ 17 units

Question Number: 56 Question Id: 6780949460 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The power of the point (1.1.1) with respect to the sphere

$$x^2 + y^2 + z^2 + 4x + 6y + 8z + 25 = 0$$
 is

**Options**:

- 1 26
- g. **20**.
- $_3$  22
- . 24

Question Number: 57 Question Id: 6780949461 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The centre of the sphere  $9(x^2 - y^2 - z^2) - 10x + 20y - 20z - 31 = 0$  is \_\_\_\_\_

$$\frac{1}{1} \frac{5}{9}, \quad \frac{10}{9}, \quad \frac{10}{9};$$



$$\sqrt{(5. -10.10)}$$

$$(-5, 10, -10)$$

$$\frac{1}{1} \frac{10}{9} \cdot \frac{20}{9} \cdot \frac{20}{9} :$$

Question Number: 58 Question Id: 6780949462 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

For what value of a, the plane  $x+y+z=a\sqrt{3}$  is a tangent plane to the sphere  $x^2 - y^2 + z^2 - 2x - 2y - 2z = 6$ .

**Options:** 

$$\sqrt{3} + 3$$

$$\sqrt{3} \pm 3$$

$$\sqrt{3} - 3$$

$$\sqrt{3} \equiv \sqrt{3}$$

Question Number: 59 Question Id: 6780949463 Display Question Number: Yes Single Line Question Option: No Option Orientation : Vertical

The length of the tangent drawn from P(1, 1, -1) to the sphere

$$x^2 - y^2 - z^2 - 3x - 7y - 9z - 4 = 0$$
 is \_\_\_\_

**Options:** 

$$1. 5\sqrt{2}$$

$$3\sqrt{2}$$

$$\frac{1}{3}$$
  $2\sqrt{2}$ 

$$\sqrt{2}$$

Question Number: 60 Question Id: 6780949464 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

The limiting points of the coaxial system of spheres

$$(x^2 + y^2 + z^2 - 20x + 30y - 40z - 29) - \lambda(2x - 3y + 4z) = 0$$
 are \_\_\_\_\_

$$(2, -3, 4) & (-2, 3, -4)$$

$$(-3.2.-4)$$
 and  $(3.2.4)$ 



{-2.4.-3} and (2.4.3)

Question Number: 61 Question Id: 6780949465 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The values of infimum and supremum of the set  $S = \{x \in R^- \ni x^3 < x\}$  are

**Options:** 

- $_1$  0 and 1
- $_{2}$  -1 and 1
- 3 Oand 3
- 4. 1 and 3

Question Number: 62 Question Id: 6780949466 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The sequence  $\{s_{\eta}\}$  defined by  $s_{\eta} = \frac{(-1)^{\eta}}{\eta}$  is \_\_\_\_\_

**Options:** 

- ncreasing sequence
- \_ Decreasing increasing
- Neither increasing nor decreasing
- Both increasing and decreasing

Question Number: 63 Question Id: 6780949467 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The set of limit points of the sequence  $\{s_n\} = \{\sin\frac{n\pi}{2}\}$  is \_\_\_\_\_

**Options:** 

- $\frac{1}{1}$ ,  $\frac{1}{1}$ -1.0}
- [-1.1]
- $\frac{1}{3}$   $\{-1,0,1\}$
- $_{4}$   $\{0.1\}$

Question Number: 64 Question Id: 6780949468 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following series is divergent



**Options:** 

$$\sum \frac{1}{4^n}$$

$$\sum_{i}$$

$$\sum_{4} \frac{\frac{1}{n}}{n(n-1)}$$

Question Number: 65 Question Id: 6780949469 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

The function f(x) = |x| in [-1, 1] is

**Options:** 

- Continuous and derivable
- Continuous but not derivable
- Derivable but not continuous
- neither continuous nor derivable

Question Number: 66 Question Id: 6780949470 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

If  $f(x) = \frac{1 - \cos ax}{\cos ax}$  is continuous at x = 0 where  $f(0) = \frac{1}{2}$  then  $a = \underline{\qquad}$ 

**Options:** 

Question Number: 67 Question Id: 6780949471 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

If f(x) = |x-1| then the left derivative of f(x) at x = 1 is \_\_\_\_\_



- . n
- 2 (
- 4 2

Question Number: 68 Question Id: 6780949472 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The value of c in Rolle's theorem for  $f(x) = \frac{\sin x}{e^x}$  in  $(0, \pi)$  is \_\_\_\_\_

**Options:** 

- 1 3
- --4
- $\frac{\pi}{2}$
- $4. \quad \overline{\sigma}$

Question Number: 69 Question Id: 6780949473 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In the Taylor series expansion of  $e^{x}$  about x=2, the coefficient of  $(x-2)^{\frac{1}{2}}$  is

**Options:** 

- 1. <u>|</u>
- - $\frac{e^2}{14}$
- 3. <u>-</u>
  - $\frac{e^4}{\downarrow \downarrow}$

Question Number: 70 Question Id: 6780949474 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The function  $f(x) = x \sin \frac{1}{x}$ . (x = 0): f(x) = 0. (x = 0). At x = 0. f(x) is \_\_\_\_\_\_

**Options:** 

Continuous and differentiable

1.



- Continuous but not differentiable
- \_ Differentiable but not continuous
- not continuous and not differentiable

Question Number: 71 Question Id: 6780949475 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If  $f(x) = x^2$  defined on [0, 1] and  $P = \{0, \frac{1}{4}, \frac{2}{4}, \frac{3}{4}, 1\}$  then  $L(P, f) = \underline{\qquad}$ 

**Options:** 

- $\frac{2}{32}$
- $\frac{5}{32}$
- $\frac{1}{3.2}$
- $\frac{15}{32}$

Question Number: 72 Question Id: 6780949476 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If f(x) = [x] for  $x \in [0, 3]$  then

**Options:** 

- f(x) has infinite number discontinuous points in [0, 3].
- f(x) is unbounded on [0, 3]
- $\int_{S} f(x)$  is Riemann integrable on [0, 3]
- f(x) is not Riemann integrable on [0, 3]

Question Number: 73 Question Id: 6780949477 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If f(x) = 1 when  $x \in Q$  and f(x) = 0 when  $x \in R - \{Q\}$  then

**Options:** 

$$\int_{0}^{1} f(x) dx$$
 exists

\_ Lower and upper Riemann integrals both exist, but not equal



Neither lower nor upper Riemann integral exist

f(x) is differentiable

Question Number: 74 Question Id: 6780949478 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If  $f:[a,b]\to R$  is bounded function and  $P_1,P_2\in\phi[a,b]$  such that  $P_i\equiv P_2$  then

**Options:** 

$$U(P_1,f) \ge U(P_2,f)$$

$$\int_{S}U(P_1,f)\leq U(P_2,f)$$

$$_{3.}$$
  $L(P_1, f) \ge L(P_2, f)$ 

$$U(P_1, f) = U(P_2, f)$$

Question Number: 75 Question Id: 6780949479 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If p is a prime then  $(Z_p, \neg_p, \neg_p)$  is

**Options:** 

, Non-commutative ring

、Has zero divisors

3. A field

, Not a field

Question Number : 76 Question Id : 6780949480 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If R is a commutative ring and  $\forall a,b \in R$ , then

**Options:** 

$$(a+b)^2 = a^2 - b^2$$

$$(a-b)^2 = a^2 - b^2$$

$$\int_{3a}^{b} (a+b)^2 = a^2 - b^2 - 2ab$$

$$(a-b)^2 = (a-b)^2$$

Question Number: 77 Question Id: 6780949481 Display Question Number: Yes Single Line Ouestion Option: No Option Orientation: Vertical



Consider the ring  $R = \{0, 2, 4, 6, 8, 10\}$  under multiplication and addition modulo 12 then char (R)=

**Options:** 

- 1 2
- $\sim 4$
- 3, 6
- 4 8

Question Number: 78 Question Id: 6780949482 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The solutions of the equations  $x^2 \oplus 1 = 0$  in the field  $(z_5, \oplus, \oplus)$  are

**Options:** 

- , 0. 1
- , 1, 2
- $_3$  2, 3
- <sub>4</sub> 1.4

Question Number: 79 Question Id: 6780949483 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Let R be the ring of all  $2 \times 2$  matrices over Z, the set of integers, then

$$M = \left\{ \begin{bmatrix} a & 0 \\ b & 0 \end{bmatrix} \ni a, b \in Z \right\} \text{ is } \underline{\qquad}$$

**Options**:

- Left ideal but not a right ideal
- Right ideal but not a left ideal
- <sub>3.</sub> Ideai
- , Neither left ideal nor right ideal

Question Number: 80 Question Id: 6780949484 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If a and b are associates in an Euclidean ring then \_\_\_\_\_

- $_{1,-}d(a)=d(b)$
- d(a) < d(b)
- $\frac{1}{2}d(b) \sim d(a)$



```
d(a) \le d(b)
```

Question Number: 81 Question Id: 6780949485 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following set of vectors in  $\mathbb{R}^3(R)$  is linearly independent.

**Options:** 

$$\{(1, 1, 2), (1, 2, 5), (5, 3, 4)\}$$

$$= \{(0, 0, 1), (0, 1, 1), (0, 0, 0)\}$$

$$\{(1, 3, 2), (1, -7, -8), (2, 1, -1)\}$$

$$\{(1, 0, 0), (1, 1, 0), (1, 1, 1)\}$$

Question Number: 82 Question Id: 6780949486 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If  $W_1$  is a subspace of  $R^{\frac{1}{2}}(R)$  given by  $W_1 = \{(a, b, c, d): b-2c+d=0\}$  then  $\dim W_1 = \underline{\hspace{1cm}}$ 

**Options:** 

- 1 3
- χ 4
- . 2
- 4 1

Question Number: 83 Question Id: 6780949487 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If  $U = \{(1,2,1),(0,1,2)\}$  and  $W = \{(1,0,0),(0,1,0)\}$  then the dimension of U + W is \_\_\_\_

**Options:** 

- 1 1
- . 2
- ્ર ઉ
- л 4

Question Number: 84 Question Id: 6780949488 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The maximum number of linearly independent vectors in a vector space of dimension 5 is



- 1. 5
- n 4
- з 6
- 4 8

Question Number: 85 Question Id: 6780949489 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If  $T: \mathbb{R}^2 \to \mathbb{R}$  is a linear transformation given by T(2, 3) = :4, 5 and T(1, 0) = (0, 0), then  $T(5, 3) = \underline{\hspace{1cm}}$ 

**Options:** 

- $\frac{1}{1}\frac{5}{3}$
- 、 (8, 10)
- $_{3}$  (4.5)
- (7, 5)<sub>4</sub>

Question Number: 86 Question Id: 6780949490 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If  $T_1: R^3 \to R^2$  and  $T_2: R^2 \to R^2$  are two linear transformations defined by  $T_1(x, y, z) = (3x, 4y - z)$  and  $T_2(x, y) = (-x, y)$  then  $T_2T_2$  is \_\_\_\_

**Options:** 

- (-3x, 4y+z)
- (-3*x*, 4*y*-*z*)
- (3x, 4y+z)
- 4. not defined

Question Number: 87 Question Id: 6780949491 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If  $T: \mathbb{R}^6 \to \mathbb{R}^6$  is a linear transformation with nullity of T is 4 then rank of T is

- 1. 1
- $\sim 2$
- , 3
- . 4



Question Number: 88 Question Id: 6780949492 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If  $T:V_1 \to V_3$  is a linear transformation defined by

T(x,y) = (x-y,2x-y,7y) then the matrix of T relative to  $B_{\underline{z}}$  and  $B_{\underline{z}}$  is where  $B_{\underline{z}}$  and  $B_{\underline{z}}$  are the standard bases of

\_\_\_\_\_. where  $B_i$  and  $B_2$  are the standard bases of

 $V_2$  and  $V_3$  respectively.

**Options:** 

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

$$2 - 1$$

Question Number: 89 Question Id: 6780949493 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Rank of the matrix  $A = \begin{bmatrix} 1 & 1 & 1 \end{bmatrix}$  is \_\_\_\_

**Options:** 

- , 2
- , 1
- 3 3
- 4. 0

Question Number: 90 Question Id: 6780949494 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

For what value of k the system of equations x+y+z=3, x+2y+3z=4, x+4y+kz=6 will NOT have a unique solution?



- , £
- ્ (
- a -

Question Number: 91 Question Id: 6780949495 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If 
$$A=\begin{bmatrix} 1 & 0 \end{bmatrix}$$
 then  $\det(Ad/A)=$  \_\_\_\_\_

**Options:** 

- $\det A$
- dat .
- $_{\downarrow}$   $-\det A$
- $_{A}$   $(\det A)^{2}$

Question Number: 92 Question Id: 6780949496 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

**Options:** 

- 1. 2
- 20
- , 4

Question Number: 93 Question Id: 6780949497 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The value of q for which the set of linear equations 2x - 3y = 0.6x - qy = 0 can have non trivial solution is \_\_\_\_\_

- 1 2
- ຸ 6
- ွ ဋ



<sub>4.</sub> 12

Question Number: 94 Question Id: 6780949498 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following statement is TRUE for all real symmetric matrices?

### **Options:**

- All the eigen values are real
- All the eigen values are positive
- All the eigen values are distinct
- Sum of all the eigen values is zero 4.

Question Number: 95 Question Id: 6780949499 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

One of the eigen vector of the matrix  $A = \begin{bmatrix} -5 & 2 \\ -9 & 6 \end{bmatrix}$  is \_\_\_\_

### **Options:**

- \_\_1\_
- . '\_1\_
  - -\_<sub>-</sub>,-
- 9 '
  - <sub>-</sub> -
- · —1
- -. -<u>.</u>.

Question Number: 96 Question Id: 6780949500 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The necessary condition to diagonalize a matrix is that

#### **Options:**

The matrix is non-singular

lts eigen values should be real

Its eigen vectors should be independent

3

lts all eigen values should be distinct

Question Number: 97 Question Id: 6780949501 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If 
$$\alpha = (-1, 0, 1)$$
 and  $\beta = (2, 0, -2)$  then  $\|\alpha + \beta\| = \underline{\hspace{1cm}}$ 

**Options:** 

- 1 0
- \_ 1
- , 2
- $\sqrt{2}$

Question Number: 98 Question Id: 6780949502 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

For  $\alpha$ ,  $\beta \in V$ , in an inner product space V(F), the triangle inequality states that

**Options:** 

$$\|\alpha - \beta\| = \|\alpha\| \div \|\beta\|$$

$$\|\alpha - \beta\| > \|\alpha\| - \|\beta\|$$

$$\|\alpha - \beta\| < \|\alpha\| - \|\beta\|$$
3.

$$\|\alpha - \beta\| \le \|\alpha\| - \|\beta\|$$

Question Number: 99 Question Id: 6780949503 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In an inner product space V(F), for  $a,b\in F$  and  $\alpha,\beta\in V$ , then  $(a\alpha,b\beta)=$ 

**Options:** 

- $ab(\alpha,\beta)$
- $_{2}$   $aar{b}(\alpha,eta)$
- $ab(\alpha,\beta)$
- $a^{-}\overline{ab}(\alpha,\beta)$

Question Number: 100 Question Id: 6780949504 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical



If  $\alpha$ ,  $\beta$  are two vectors in an inner product space such that  $|(\alpha, \beta)| = ||\alpha|||\beta||$  then  $\alpha$ ,  $\beta$  are \_\_\_\_\_

### **Options:**

Linearly dependent

Linearly independent

Orthonormal

\_ Orthogonal

Analytical Ability

Number of Questions:

Display Number Panel:

Group All Questions:

44

Yes

No

Question Number: 101 Question Id: 6780949505 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

**Directions**: A question is given followed by data in the form of two statements labeled as I and II. Choose the correct option to answer the question.

What is the Average mark of three students joined recently in a class?

- I. The average mark of the class before joining these 3 students is 68 marks.
- II. Marks of newly joined students respectively are 62,75 and 78.

#### **Options:**

The data given in Lalone is sufficient to answer the question

The data given in II alone is sufficient to answer the question

Both I and II put together are sufficient to answer the question and any single statement alone is not sufficient

Both I and II put together are not sufficient to answer the question and additional data is needed



Question Number: 102 Question Id: 6780949506 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

**Directions**: A question is given followed by data in the form of two statements labeled as I and Ii. Choose the correct option to answer the question.

What is the difference between Ravi and Raja ages?

- I. After 5 years the ratio of their ages would be 9:5.
- II. Ravi is twice as old as Raja.

### **Options:**

- The data given in I alone is sufficient to answer the question
- The data given in II alone is sufficient to answer the question.
  - Both I and II put together are sufficient to answer the question and any single statement alone is not sufficient
  - Both I and II put together are not sufficient to answer the question and additional data is needed

Question Number: 103 Question Id: 6780949507 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

**Directions**: A question is given followed by data in the form of two statements labeled as I and II. Choose the correct option to answer the question.

A shop keeper sells some articles and got 5% profit. What is the exact amount of profit in rupees?

- Number of articles sold are 10.
- II. Transport cost of these articles is Rs. 150/-.

#### **Options:**

3.

- The data given in I alone is sufficient to answer the question
- \_ The data given in II alone is sufficient to answer the question
  - Both I and II put together are sufficient to answer the question and any single statement alone is not sufficient



Both I and II put together are not sufficient to answer the question and additional data is needed

Question Number: 104 Question Id: 6780949508 Display Question Number: Yes Single Linc Question Option: No Option Orientation: Vertical

**Directions**: A question is given followed by data in the form of two statements labeled as I and II. Choose the correct option to answer the question.

What is the total of ten data items?

- I. The average of first 4 data items is 65.
- II. The average of next 6 data items is 76.

### **Options:**

- . The data given in I alone is sufficient to answer the question
  - The data given in II alone is sufficient to answer the question
- Both I and II put together are sufficient to answer the question and any single statement alone is not sufficient
- Both I and II put together are not sufficient to answer the question and additional data is needed

Question Number: 105 Question Id: 6780949509 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

**Directions**: A question is given followed by data in the form of two statements labeled as I and II. Choose the correct option to answer the question.

How much percentage of profit Ravi got by selling a T.V.?

- I. He brought the T.V. with 25% discount on labeled price.
- II. He sold the T.V. with 25% profit on the labeled price.

- The data given in I alone is sufficient to answer the question
  - The data given in II alone is sufficient to answer the question



Both I and II put together are sufficient to answer the question and any single statement alone is not sufficient

Both I and II put together are not sufficient to answer the question and additional data is needed

Question Number: 106 Question Id: 6780949510 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

**Directions**: A question is given followed by data in the form of two statements labeled as I and II. Choose the correct option to answer the question.

A and B started a partnership business and got rupees 20 thousands profit. What is B Share of profit?

- I. A and B investment ratios are 3:2.
- II. B share is Rs. 10.000 less than A share.

### **Options:**

The data given in I alone is sufficient to answer the question

The data given in II alone is sufficient to answer the question

Both I and II put together are sufficient to answer the question and any single statement alone is not sufficient

Both I and II put together are not sufficient to answer the question and additional data is needed

Question Number: 107 Question Id: 6780949511 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

**Directions**: A question is given followed by data in the form of two statements labeled as I and II. Choose the correct option to answer the question.

In how many days can Ram and Kumar together can complete the work?

- I. Kumar can complete the job in 30 days.
- II. Ram can complete the job in 20 days.



- The data given in I alone is sufficient to answer the question
- The data given in II alone is sufficient to answer the question
  - Both I and II put together are sufficient to answer the question and any single statement alone is not sufficient
- Both I and II put together are not sufficient to answer the question and additional data is needed

Question Number: 108 Question Id: 6780949512 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

**Directions**: A question is given followed by data in the form of two statements labeled as I and II. Choose the correct option to answer the question.

How long will it take to empty the tank if both the inlet pipe A and outlet pipe B are opened simultaneously?

- 1. A can fill the tank in 20 minutes.
- II. B can empty the full tank in 10 minutes.

#### **Options:**

- The data given in I alone is sufficient to answer the question
- The data given in II alone is sufficient to answer the question
- Both I and II put together are sufficient to answer the question and any single statement alone is not sufficient
- Both I and II put together are not sufficient to answer the question and additional data is needed

Question Number: 109 Question Id: 6780949513 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical



**Directions**: A question is given followed by data in the form of two statements labeled as I and II. Choose the correct option to answer the question.

Two cities are connected by railway line. What is the distance between two cities?

- I. The speed of the express train is 20 km/hr more than the passenger train.
- II. The passenger train takes 5 hours to cover the distance.

## **Options:**

- The data given in I alone is sufficient to answer the question
- The data given in II alone is sufficient to answer the question
- Both I and II put together are sufficient to answer the question and any single statement alone is not sufficient
- Both I and II put together are not sufficient to answer the question and additional data is needed

Question Number: 110 Question Id: 6780949514 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

**Directions**: A question is given followed by data in the form of two statements labeled as I and II. Choose the correct option to answer the question.

In how many years will a sum of money at simple interest become treble?

- I. The rate of interest is 12.5%.
- II. The interest earned in 4 years is half of the sum invested.

- The data given in I alone is sufficient to answer the question
- The data given in II alone is sufficient to answer the question
- Both I and II put together are sufficient to answer the question and any single statement alone is not sufficient



Both I and II put together are not sufficient to answer the question and additional data is needed Question Number: 111 Question Id: 6780949515 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** What is the next number in the series 1.1,2,4.7.11,----? **Options:** Question Number: 112 Question Id: 6780949516 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** What is the next fraction in the series 1/5, 5/7, 8/9, -----? **Options:** 9/11 、10/11 10/10 <sub>4.</sub> 11/11 Question Number: 113 Question Id: 6780949517 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** Fill up the missing number in the ratio 15:3::75:---. **Options:** 150

<sub>3.</sub> 15

60

Question Number: 114 Question Id: 6780949518 Display Question Number: Yes Single Line **Orientation: Vertical** 



What is the next in the series? DGK, KNR, RUY,
Options : YZD 1.
YBF
YBE
YBG
Question Number : 115 Question Id : 6780949519 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Fill up the missing numbers in the series1,5.4.7.7.911,13,
Options : 10,12
10.14
10.13 3.
10.14
Question Number : 116 Question Id : 6780949520 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
If 5*4 = 9, 8*19 = 27 then what is 11*20 = ?
Options :
1. 30
31
3. <b>9</b>
4. 27
Question Number : 117 Question Id : 6780949521 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Find the odd man out: Bulb, T.V., Fan, Car. A.C., Computer.
Options : A. C  1.
T.V.
3. Computer
collegedunia [India's largest Student Review Platform

Car

Question Number: 118 Question Id: 6780949522 Display Question Number: Yes Single Linc Question Option: No Option **Orientation: Vertical** 

Find the odd man out: 75, 84, 66, 93, 88, 48,57.

## **Options:**

- 66
- <sub>2.</sub> 75
- <sub>3.</sub> 88
- 4. 93

Question Number: 119 Question Id: 6780949523 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

If A + 10 = 15 and 10 - B = 8 then what is A\*B = ?

## **Options:**

Question Number: 120 Question Id: 6780949524 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

## Find the missing number

1	3	5	10	8
1	9	25	0	?
1	3	5	0	2

## **Options:**

Question Id: 6780949525 Sub Question Shuffling Allowed: Yes Group Comprehension Questions: No

**Question Numbers: (121 to 127)** 



## Hint: Use the following table to answer the question. Sale of batteries sold by a company in 3 years is as follows:

Year/type	2014	2015	2016	Total.
32AH	102	85	63	250
35AH	105	120	135	360
55AH	110	155	125	390
Total.	317	360	323	1000

## **Sub questions**

Question Number: 121 Question Id: 6780949526 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In which year batteries sold are highest?

## **Options:**

- , 2014
- 2015
- 2016
- <sub>4.</sub> 2017

Question Number: 122 Question Id: 6780949527 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which type of Battery has continuous increase of demand?

## **Options:**

- <sub>1.</sub> 32 AH
- <sub>2.</sub> 55AH
- <sub>3.</sub> 30 AH
- <sub>4.</sub> 35 AH

Question Number: 123 Question Id: 6780949528 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

What is the approximate rate of increased sale of 55AH battery from 2014 to 2015?

- $_{1}$  40.91
- <sub>3</sub> 40.19
- ຸ 49.91
- 49.19



Question Number: 124 Question Id: 6780949529 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Throughout the period which type of battery has popular sale?

## **Options:**

- , 32 AH
- , 55AH
- ੍ 30 AH
- <sub>4</sub> 35 AH

Question Number: 125 Question Id: 6780949530 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In Which year which type batteries are sold highest?

## **Options**:

- . 2014.55AH
  - 2015.35 AH
- 2.
- <sub>2</sub>016, 55AH
- <sub>4</sub> 2015, 55AH

Question Number: 126 Question Id: 6780949531 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In which year which type battery has least demand?

## **Options:**

- 216,32AH
- , 2016, 55AH
- ્ 2015. 32AH
- , 2016.35AH

Question Number: 127 Question Id: 6780949532 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which type of battery has lowest demand?

- <sub>1</sub> 32 AH
- 55AH



```
Question Number: 128 Question Id: 6780949533 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
 If COMPUTER is coded as RECOTUMP then CALENDER is coded as -----?
Options:
  RELEDNCA
  RECADNLE
  RELECADN
  REDNLECA
Question Number: 129 Question Id: 6780949534 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
 If TABLE is coded as UBCMF then BENCH is coded as -----?
Options:
  CFODI
  ODICE
  CFDOI
Question Number: 130 Question Id: 6780949535 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
 If LIFE is coded as 9253. RIPPLE is coded as 724493, then PILLER is coded as
Options:
  499237
  994237
  429937
  423799
```

30 AH

35 AH

Question Number: 131 Question Id: 6780949536 Display Question Number: Yes Single Line Ouestion Ontion: No Ontion Orientation: Vertical



If APPLE is coded as ZKKOV and BANK is coded as YZMP then BLACK is coded as?
Options : YZOXP
ZYOPX
, YOZXP
, YZXPO
Question Number : 132 Question Id : 6780949537 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
If BUTTER is coded as 123345 then RUBBER is coded as?
Options : 521145
125541
554511 S.
512145
Question Number : 133 Question Id : 6780949538 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
In a certain code 438271 is coded as 529180 then what is the decode of 325742?
Options :
416651
233384
3. 234833
- · ·

Question Number: 134 Question Id: 6780949539 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

In a certain language Pen is called black, black is called book, book is called blue, blue is called bag, bag is called read and read is called marks. In that language what is the color of the Sky?

## **Options:**

Blue



<u>.</u> Black
<sub>3.</sub> Book
<sub>4.</sub> Bag
Question Number : 135 Question Id : 6780949540 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
In a certain code '1 2 3' is coded as 'CUP' and '3 4 5' is coded as 'PEN 'and '5 6 7' is coded as 'NOT'. Then the word 'PUT' is decoded as?
Options :
<sub>1.</sub> 234
<u>367</u>
573 3.
<sub>4.</sub> 3 2 7
Question Number : 136 Question Id : 6780949541 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
A leap year consists of how many odd days?
Options :
Zero 1.
One 3.
<sub>3.</sub> Two
<sub>4.</sub> Three
Question Number : 137 Question Id : 6780949542 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
The calendar of 2017 is the same as the calendar of the following year
Options :
2007 1.
<sub>3.</sub> 2008
<sub>3.</sub> 2009
<sub>4.</sub> 2010
Question Number : 138 Question Id : 6780949543 Display Question Number : Yes Single Line ^ '' ^ '' ` ` ` ^ '' Orientation : Vertical
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Among the following, which is not a leap year?
Options: 1948 2000 3. 2004 4. 2100
Question Number: 139 Question Id: 6780949544 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  Number of odd days in 100 years is
Options:  1. 2  2. 3  3. 5  4. 6
Question Number: 140 Question Id: 6780949545 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  What was the day of the week on 6 <sup>th</sup> June, 2002?
Options:  1. Tuesday  2. Thursday  3. Friday  4. Sunday
Question Number: 141 Question Id: 6780949546 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  The angle between hours hand and minutes hand in a clock wise direction at 3.00 p.m. is
Options:  O degrees  O degrees  O degrees
180 degrees  3. collegedunia  India's largest Student Review Platform

Question Number: 142 Question Id: 6780949547 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Between 11.00 a.m. to 1.00 p.m. both hands of the clock coincide how many times?

Options:

3 times

1 time
2 times

Question Number: 143 Question Id: 6780949548 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

How many times both hands in a clock are in right angles in a day?

## **Options:**

22 times

<sub>4.</sub> zero times

- <sub>a</sub> 11 times
- ຸ 44 times
- , 48 times

Question Number: 144 Question Id: 6780949549 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

How many times both hands in a clock point in opposite direction in 12 hours?

### **Options:**

- ុ 12 times
- ຼ 11 times
- ุ 60 times
- <sub>4</sub> 30 times

Question Number: 145 Question Id: 6780949550 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In a digital watch at a Railway station, displaying hours and minutes show how many times, all, the Four digits same in a day?



```
2 times
   3 times
   4 times
Question Number: 146 Question Id: 6780949551 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
 In how many different ways 5 books can be arranged in a shelf?
Options:
   201 Ways
   100 Waγs
   120 Ways
   80 Ways
Question Number: 147 Question Id: 6780949552 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
 In how many ways one can select any two different books from five books?
Options:
   20 ways
<sub>3.</sub> 15 ways
   10 ways
   5 ways
Question Number: 148 Question Id: 6780949553 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
 In how many ways 4 girls and 6 boys are to be arranged in cinema theater
 consisting of 10 seats in a Row such that all girls must sit together.
Options:
```

## \_\_\_\_\_

<sub>1.</sub> 10! Ways

1 time

6!4! Ways

5!5! Ways



Options:  870  780  670  760  Question Number: 150 Question Id: 6780949555 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  What is the value of <sup>4</sup> P <sub>4</sub> ?  Options:  1. 1  2. 18  3. 20  4. 24  Communicative English  Number of Questions:  About All Questions:  About All Questions:  About All Questions:  No  Question Number: 151 Question Id: 6780949556 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  Fill in the blanks with the correct article from the given options:  Mr. Ratnam is honorary member of the Temple Committee.  Options:	7!4! Ways 4.		
Options:  1 870  2 780 3 670 4 760  Question Number: ISO Question Id: 6780949555 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  What is the value of <sup>4</sup> P <sub>4</sub> ?  Options:  1 1 2 18 3 20 4 24  Communicative English  Number of Questions: Display Number Panel: Group All Questions: No  Question Number: 151 Question Id: 6780949556 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  Fill in the blanks with the correct article from the given options:  Mr. Ratnam is honorary member of the Temple Committee.  Options: 1 A 2 An 3 the	Question Number: 149 Question Id: 6780949554 Display Question Orientation: Vertical	on Number : Yes Single Linc Question Option	ı: No Option
2 780 2 780 3 670 4 760  Question Number: 150 Question Id: 6780949555 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  What is the value of <sup>4</sup> P <sub>4</sub> ?  Options: 1	What is the value of 30! /28! ?		
Question Number: 150 Question Id: 6780949555 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical What is the Value of <sup>4</sup> P <sub>4</sub> ? Options: 1. 1 2. 18 3. 20 4. 24  Communicative English Number of Questions: Display Number Planel: Group All Questions: No  Question Number: 151 Question Id: 6780949556 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  Fill in the blanks with the correct article from the given options: Mr. Ratnam is honorary member of the Temple Committee. Options: 1. A 2. An 3. the	Options : 870		
Question Number: 150 Question Id: 6780949555 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical What is the Value of <sup>4</sup> P <sub>4</sub> ? Options: 1. 1 2. 18 3. 20 4. 24  Communicative English Number of Questions: Display Number Planel: Group All Questions: No  Question Number: 151 Question Id: 6780949556 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  Fill in the blanks with the correct article from the given options: Mr. Ratnam is honorary member of the Temple Committee. Options: 1. A 2. An 3. the	_ 780		
Question Number: 150 Question Id: 6780949555 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  What is the value of <sup>4</sup> P <sub>4</sub> ?  Options:  1. 1  2. 18  3. 20  4. 24  Communicative English  Number of Questions: Display Number Panel: Group All Questions: No  Onestion Number: 151 Question Id: 6780949556 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  Fill in the blanks with the correct article from the given options:  Mr. Ratnam is honorary member of the Temple Committee.  Options: 1. A 2. An 3. the			
Options:  1. 1 2. 18 3. 20 4. 24  Communicative English  Number of Questions: Display Number Panel: Group All Questions: No  Options: No  Communicative English  No  Communicative English  No  Communicative English  No  Communicative English  No  Option : No  Option : No  Options:  Mr. Ratnam is honorary member of the Temple Committee.  Options: 1. A 2. An 3. the	760 4.		
Options:  1. 1 2. 18 3. 20 4. 24  Communicative English  Number of Questions: Display Number Panel: Press Group All Questions: No  Question Number: 151 Question Id: 6780949556 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  Fill in the blanks with the correct article from the given options:  Mr. Ratnam is honorary member of the Temple Committee.  Options: 1. A 2. An 3. the	Orientation : Vertical	on Number : Yes Single Line Question Option	ı: No Option
2. 18 2. 20 3. 20 4. 24  Communicative English  Number of Questions: Display Number Panel: Press Group All Questions: No  Question Number: 151 Question Id: 6780949556 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  Fill in the blanks with the correct article from the given options:  Mr. Ratnam is honorary member of the Temple Committee.  Options: 1. A 2. An 3. The	What is the value of ${}^4P_4$ ?		
Communicative English  Number of Questions:  Display Number Panel: Group All Questions:  Ves Group All Question Number: 151 Question Id: 6780949556 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  Fill in the blanks with the correct article from the given options:  Mr. Ratnam is honorary member of the Temple Committee.  Options: 1. A 2. An 3. the	Options:  1.		
Communicative English  Number of Questions: Display Number Panel: Pes Group All Questions: No  Question Number: 151 Question Id: 6780949556 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  Fill in the blanks with the correct article from the given options:  Mr. Ratnam is honorary member of the Temple Committee.  Options: 1. A 2. An 3. the	<u>18</u>		
Communicative English  Number of Questions:  Display Number Panel: Group All Questions:  No  Question Number: 151 Question Id: 6780949556 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  Fill in the blanks with the correct article from the given options:  Mr. Ratnam is honorary member of the Temple Committee.  Options:  A  A  The	3. 20		
Number of Questions: Display Number Panel: Pes Group All Questions: No  Question Number: 151 Question Id: 6780949556 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  Fill in the blanks with the correct article from the given options:  Mr. Ratnam is honorary member of the Temple Committee.  Options: A  An  the	4. 24		
Display Number Panel: Group All Questions:  Question Number: 151 Question Id: 6780949556 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  Fill in the blanks with the correct article from the given options:  Mr. Ratnam is honorary member of the Temple Committee.  Options: 1. A 2. An 2. the	Con	municative English	
Question Number: 151 Question Id: 6780949556 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  Fill in the blanks with the correct article from the given options:  Mr. Ratnam is honorary member of the Temple Committee.  Options:  1. A  2. An  the			
Fill in the blanks with the correct article from the given options:  Mr. Ratnam is honorary member of the Temple Committee.  Options:  1. A  2. An  the			
Fill in the blanks with the correct article from the given options:  Mr. Ratnam is honorary member of the Temple Committee.  Options:  1. A  2. An  the			
Mr. Ratnam is honorary member of the Temple Committee.  Options:  1. A  2. An  3. the	Question Number: 151 Question Id: 6780949556 Display Question Orientation: Vertical	on Number : Yes Single Line Question Option	ı: No Option
Options:  1. A  2. An  3. the	Fill in the blanks with the correct arti	icle from the given options	3:
1. A 2. An 3. the	Mr. Ratnam is honorary members	er of the Temple Committee	<b>L</b>
	Options:  1. A		
	<sub>3.</sub> An		
	the 3.	CO India's	llegedunia  largest Student Review Platform

4.
Question Number: 152 Question Id: 6780949557 Display Question Number: Yes Single Linc Question Option: No Option Orientation: Vertical
Fill in the blanks with the correct article from the given options:
attempt has been made to collect funds to start Public Library.
Options :
The, a 1.
<u>.</u> An, a
A. an
<sub>4.</sub> A, the
Question Number: 153 Question Id: 6780949558 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Complete the sentence with right preposition from the options given below:
the teacher there are forty students in the class.
Options : , With
<sub>2.</sub> Beside
<sub>3.</sub> Besides
Along 4.
Question Number: 154 Question Id: 6780949559 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Complete the sentence with right preposition from the options given below:
The members are discussing the issue.
Options :
On 1.
about
<sub>3.</sub> over

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No article needed

Question Number : 155 Question Id : 6780949560 Display Question Number : Yes Single Linc Question Option : No Option Orientation : Vertical
Use the correct form of the tense given in the options to fill in the blank.
No one notice the change in you till today.
Options :
does not
a. does
do not 3.
<sub>4.</sub> did
Question Number : 156 Question Id : 6780949561 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Use the correct form of the tense given in the options to fill in the blank.
The show before I entered the theatre
Options :
was started
did start
<sub>3.</sub> started
had started 4.
Question Number : 157 Question Id : 6780949562 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Choose the right option to fill in the blank to convert the voice of the sentence from active into passive.
He by the police, already.
Options :
arrested
is arrested
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4. no preposition needed

na 3.	s arrestea
ha:	s been arrested
37 <del>-7-7</del> (3) - (3)	Number : 158 Question Id : 6780949563 Display Question Number : Yes Single Line Question Option : No Option ion : Vertical
	oose the best word from the following to make the sentence mplete and meaningful.
So	far none of the Ministers allotted portfolio.
Options are	
we	r <del>e</del>
a has	s been
ha 1.	ve been
29 <u>757</u> (A) - 1019 - 1010 - 1019	Number: 159 Question Id: 6780949564 Display Question Number: Yes Single Line Question Option: No Option ion: Vertical
	noose the best word from the following to make the sentence mplete and meaningful.
ľ	Many of the workers to be paid the remuneration.
Options	
ı. ne	ed
ne L	eds
ne	eded
is 1.	needing
	Number : 160 Question Id : 6780949565 Display Question Number : Yes Single Line Question Option : No Option ion : Vertical
Çh	oose the correct question tag for the following :
i ar	n a good citizen.
Options	
An L	nn't  ?  collegedunia

```
Aren't I?
   Don't I?
Question Number: 161 Question Id: 6780949566 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
 Identify the synonym for the word, 'VERDICT'
Options:
   Pronounce
   Prompt
   Agreement
  Judgment
Question Number: 162 Question Id: 6780949567 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
 Identify the synonym for the word, 'ABOLISH'
Options:
   Embellish
   Eradicate
   Endure
   Export
Question Number: 163 Question Id: 6780949568 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
Identify the antonym of the word, 'CONDENSE'
Options:
  Move
  Expand
```

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Am I?

Recede

```
Question Number: 164 Question Id: 6780949569 Display Question Number: Yes Single Linc Question Option: No Option
Orientation: Vertical
Identify the antonym of the word, 'ABUNDANT'
Options:
   Reluctant
   Minor
   Meager
   Dull
Question Number: 165 Question Id: 6780949570 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
  Choose the one which can be substituted for the given words/
  sentence:
  The science that deals with birds:
Options:
  Ornithology
   Pathology
   Ophthalmology
   Biology
Question Number: 166 Question Id: 6780949571 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
  Choose the one which can be substituted for the given words/
  sentence:
  One who is present everywhere:
Options:
  Omniscient
  Omnipresent
```

Abscond



3.	Nonviolent
4.	Ambivalent
10.TO (17.70)	estion Number : 167 Question Id : 6780949572 Display Question Number : Yes Single Line Question Option : No Option lentation : Vertical
	Choose a suffix/prefix to fill in the blank with the right form of the word given in the bracket:
	One must be aware of one's own (abilities).
1. 2. 3.	tions : Non- un- in- en-
Ori	estion Number: 168 Question Id: 6780949573 Display Question Number: Yes Single Line Question Option: No Option lentation: Vertical  Choose the right word from the following to fill in the blank:
	He received a for Rs. 1000/- from the Principal as a prize.
1. 3.	tions : check cheque chalk cheek
+. Qu	estion Number : 169 Question Id : 6780949574 Display Question Number : Yes Single Line Question Option : No Option Tentation : Vertical
	Choose the right word from the following to fill in the blank:
	There was no Board indicating way out in the theatre.
	tions : Exit



uestion Option : No Option			
blank:			
The machine has been for use in kitchen.  Options: adopted aborted adapted averted  Question Number: 171 Question Id: 6780949576 Display Question Number: Yes Single Line Question Option: No Option Identify which part of the sentence is wrong:			



Prime	Minister, Mr. Mod	di / congratulated	the ISRO scier	ntists / for their success, i	recentl
	1	2	3	4	
ptions :					
2					
3					
4					
rientation	ı : Vertical		Question Number : Yes	Single Line Question Option : No	Option
The I	Police Inspecto	or / said that / l	he had arrested	d the thief / yesterday	
	1	2	3	4	
ptions :					
2					
4					
rientation	n : Vertical			Single Line Question Option : No	Option
ldent	tify which par	t of the sente	nce is wrong:		
One	of my relatives	/ is having / th	rree Tea Estate	es / in this valley.	
	1	2	3	4	
ptions :					
3					

Identify which part of the sentence is wrong:



Question Number: 175 Question Id: 6780949580 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

## Identify which part of the sentence is wrong:

I would like / to get good rank in the Exams / so I am preparing / hardly.

1

2

3

4

## **Options:**

- , 1
- ͺ 2
- ् 3
- 4

Question Number: 176 Question Id: 6780949581 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

## Choose the correct alternative to replace the <u>italicized and</u> <u>underlined</u> part which may improve the sentence:

The new director is trying to bring up many improvements in the company.

## **Options:**

- , bring about
- obring down
- <sub>a</sub> bring in
- , bring back

Question Number: 177 Question Id: 6780949582 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

## Choose the correct alternative to replace the <u>italicized and</u> <u>underlined</u> part which may improve the sentence:

The principal turned off the illogical demands of the students.

### **Options:**

turned out

1



```
turned in
  turned down
  turned away
Question Number: 178 Question Id: 6780949583 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
  Choose the correct alternative to replace the <u>italicized and</u>
  underlined part which may improve the sentence:
  Had he come earlier, he should have met the celebrity.
Options:
  could have met
  will have met
   would meet
  would have met
Question Number: 179 Question Id: 6780949584 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
  Choose the correct alternative to replace the italicized and
  underlined part which may improve the sentence:
 Being very hungry <u>he not only ate food but also fruits</u>.
Options:
   not only food but ate also fruits
   he ate not only but also
  he ate not only food but also fruits
3.
```

Question Number: 180 Question Id: 6780949585 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

not only ate food also fruits.

4.



## Choose the correct alternative to replace the <u>italicized and</u> <u>underlined</u> part which may improve the sentence:

It is against to the professional ethics for any officer to *run behind* illegal money.

## **Options:**

- , run along
- running besides
- run after
  - run beyond

4.

Question Number: 181 Question Id: 6780949586 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

## Choose the exact meaning of the idiom/phrase used in the sentence below:

Parental property has become <u>a bone of contention</u> between the siblings.

## **Options:**

- a unifying factor
- something that cause quarrel
- a firm view
- a strong agreement

Question Number: 182 Question Id: 6780949587 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

## Choose the exact meaning of the idiom/phrase used in the sentence below:

The foreman *hit the nail on the head* when he said that the machine had malfunctioned because of a faulty spark plug.

- do or say exactly the right thing
- to hit hard on the head
- to hide the fact and hit the nail



$\frac{1}{2}$ .
Question Number : 183 Question Id : 6780949588 Display Question Number : Yes Single Linc Question Option : No Option Orientation : Vertical
Fill in the blank with the correct phrasal verb choosing from the options given below
Slowly, her fear of flying
Options :
died up 1.
g. died on
<sub>3.</sub> died down
died along 4.
Question Number : 184 Question Id : 6780949589 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Fill in the blank with the correct phrasal verb choosing from the options given below
The High court has the appeal of the Government.
Options :
set in 1.
set aside 2.
set out 3.
set up 4.
Question Number : 185 Question Id : 6780949590 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Fill in the blank with the correct phrasal verb choosing from the options given below
The doctor says, the patient will,positively.
Options :  pu   off
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say inaccurately right about something.

pull out

pull through

pull down

Question Id: 6780949591 Sub Question Shuffling Allowed: Yes Group Comprehension Questions: No Question Numbers: (186 to 190)

# To answer the question read the passage carefully and choose the appropriate option.

Pondicherry became famous and continues to be so because of the Aurobindo Ashram. This great philosopher and revolutionary of Bengal chose Pondicherry to settle down and propagate his teachings. He founded the Ashram at the turn of the century, and which has grown in size and number. He founded an admirable disciple in a French woman who, on a visit to India from France, came so much under the spell of the philosophy of Aurobindo that she came a second time never to return to her country. She become such an ardent devotee of Aurobindo that he nominated her as his successor and told people that she was capable of greater things. The Mother of La Mere as she was known continued to preside over the Ashram till her end at the ripe age of 95.

The Ashram has a lot of Indians and foreigners staying in it. The philosophy being 'perfection of man through work'-every man or woman can pursue any type of work he or she likes but do it with perfection.

Auroville – the City of Dawn sponsored by the Sri Aurobindo Society is just across the Pondicherry border in Tamil Nadu. It was established in 1968 with the cooperation of many nations whose soils are found here and the impetus provided by the Mother. Its main work is to work for the advent of a progressive universal harmony.

#### **Sub questions**

Question Number: 186 Question Id: 6780949592 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

## What was the founder of the Ashram before he went to Pondicherry?

### **Options:**

He had a society of service of his own.



```
He was a revolutionary Bengali and Philosopher.
  He was a veteran Freedom Fighter.
Question Number: 187 Question Id: 6780949593 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
 What is the philosophy of the Ashram?
Options:
   perfection of man through work
  perfection of woman through work
  perfection work through woman
   perfection work through man
Question Number: 188 Question Id: 6780949594 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
 The word, 'Impetus' means:
Options:
   Thirst
  Thrust
  Cooperation
  Perfection
Question Number: 189 Question Id: 6780949595 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
How was the life-time successor of Aurobindo known?
Options:
   La Mere
   The Mother La Mere
```

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He was the ardent disciple of the Mother.

<b>)</b> .	La Mere the	French			
<b>l</b> .	La Mere, an	admirable discip	ole.		
200 - 223	estion Number : 190 entation : Vertical	Question Id: 6780949596	Display Question Number	: Yes Single Line Question	Option : No Option
V	Vhat was the	e reason for the	French woman	not to return to	her country?
7	tions: The spell of	Aurobindo's phi	osophy		
,	The growth o	of the Ashram in	size and numbe		
<b>}</b> .	The desire to	o succeed Aurob	indo in the Ashri	am	
<b>1</b> .	Reasons 2 a	and 3.			
آ د S	choose the content of	correct order of	sentence parts	Yes Single Line Question of which gives m	
71	Konit / in-Spi	te-of warning/ la	visniy / spentini	oney	
). ).	tions: ABCD ADCB ACBD BDAC	<b>5</b>			
0	estion Number : 192 entation : Vertical	Question Id: 6780949598	Display Question Number	: Yes Single Line Question	Option : No Option
	Choose the c sentence	correct order of	sentence parts	s which gives m	eaningful
1	03 satellites	/ India could / in	to the space / su	accessfully launch	h at once
	A	8	C		collegedunia
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Options:						
CBDA 1.						
a. CABD						
3. BDAC						
4. DCBA	4. DCBA					
Question Number : 193 Qu Orientation : Vertical	estion Id : 678094	19599 Display Question Nu	mber : Yes Single Line Question O	ption : No Option		
Choose the correct order of sentence parts which gives meaningful sentence						
The plan / by t	he enginee	er / yesterday itse	elf / was finalized.			
А	В	C	Ð			
Options: ADBC						
2. ABDC						
3. ABCD						
4. BCDA						
Question Number: 194 Question Id: 6780949600 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical						
Choose the correct order of sentence parts which gives meaningful sentence						
Students / the classes regularly / should attend / of engineering.						
А	В	C				
Options:  ABCD						
<sub>3.</sub> DACB						
3. ADCB						
ADBC						
Question Number : 195 Qu Orientation : Vertical	iestion Id : 678094	19601 Display Question Nu	mber : Yes Single Line Question O	ption : No Option		

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Choose sentence		rder of set	ntence parts w	hich gives m	eaningful
praying	lips / hands /	are better	than / helping		
А	B	C			
Options: ADCB 1.					
2. DBCA					
3. DBAC					
<sub>4.</sub> BCDA					
Question Number Orientation : Ver	and the state of t	780949602 Displa	y Question Number : Ye	s Single Line Question (	Option : No Option
Identify	the mood of	the follow	ing sentence:		
"Shall we	e come home	for breakfa	st, madam?"		
Options :					
Request	ting				
Seeking 3.	permission				
commar 3.	nding				
apologi: 4.	zing				
Question Number Orientation : Ver	7 (94 <del>100 )</del> 2	780949603 Displa	y Question Number : Yes	s Single Line Question (	Option : No Option
Identify	the mood of 1	the followi	ng sentence:		
"Excuse	me if I am rud	e, but the a	arrangements a	are poor."	
Options: Reques 1.	ting				
Seeking 2.	permission				
commei 3.	nting				
				500	collegedunia India's largest Student Review Platform

```
4. apologizing
Question Number: 198 Question Id: 6780949604 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
  Identify the mood of the following sentence:
  "Divya, your dance was marvelous!"
Options:
   Commenting
   Complementing
   commanding
   Criticizing
Question Number: 199 Question Id: 6780949605 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
 Identify the mood of the following sentence:
 "Could you repeat what you said again, please?"
Options:
   Requesting
   Seeking permission
   commanding
  apologizing
```

Question Number: 200 Question Id: 6780949606 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

## Identify the mood of the following sentence:

"I know I have committed a mistake. Sorry, I should not have done it."

### **Options:**

Commenting

appreciating

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