Telangana State Council of Higher Education

TS ECET [FDH & B.Sc. (Mathematics)] - 2018

Date of Examination: 09-05-2018

Time of Examination: 10.00 A.M. to 1.00 P.M.

Master Question Paper Copy B.Sc. (Mathematics)

Notations:

Options shown in green color and with vicon are correct.

2.Options shown in red color and with * icon are incorrect.

Question Number: 1 Question Id: 5105295209 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following is a solution of the differential equation

$$y' = 2xy + 1 ?$$

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

$$y = e^{x^2} \int_{0}^{x} e^{-t} dt$$

$$y = e^{x^2} \int_0^x e^{-t^2} dt$$



$$y = e^{x^2} \int e^{-t^2} dt$$

Question Number : 2 Question Id : 5105295210 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

For which values of m will the function $y = e^{mx}$ be a solution of the differential equation 2y''' + y'' - 5y' + 2y = 0?

Options:

$$1, \frac{1}{2}, 2$$

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

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

Question Number : 3 Question Id : 5105295211 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Integrating factor of $(y^2 + xy + 1)dx + (x^2 + xy + 1)dy = 0$

$$\frac{1}{xy}$$

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



Question Number: 4 Question Id: 5105295212 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The solution of $(1+y^2)dx = (\tan^{-1} y - x)dy$ is _____

Options:

$$x = Tan^{-1}y - 1 + ce^{-Tan^{-1}y}$$

$$y = cTan^{-1}x + 1$$

3.
$$x = Tan^{-1}y + ce^{-Tan^{-1}y}$$

$$x = Tan^{-1}y + c \tan y$$

Question Number: 5 Question Id: 5105295213 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The general solution of a 8th order differential equation contains

Options:

More than 8 arbitrary constants

- 8 arbitrary constants
- No arbitrary constants
- only one arbitrary constant

Question Number: 6 Question Id: 5105295214 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The differential equation $\frac{dy}{dx}(x+y-5)=1$ is ______

Options:

nonlinear in x

- 1 %
- linear in y



3. V linear x

nonlinear in both x and y

Question Number: 7 Question Id: 5105295215 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Given $f_1(x) = \sin x$, $f_2(x) = \cos x$, and $f_3(x) = \sin 2x$ are 3 functions, then

- A) The wronskian of given functions is 3 sin 2x
- B) The wronskian of given functions is zero
- C) The functions are linearly dependent
- D) The functions are linearly independent.

Which of the above statements is correct?

Options:

Question Number: 8 Question Id: 5105295216 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

x = 0 and x = 1 are singular points of the differential equation $x^3(x-1)y''-2(x-1)y'+3xy=0$, which of the following is correct?

Options:

1. *



- x=0 is regular, x=1 is irregular
- x=0 is irregular, x=1 is regular

Question Number: 9 Question Id: 5105295217 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The general solution of the equation $y^{(4)} - 5y^{(2)} + 4y = \sin x$

Options:

$$y = A_1 e^{2x} + A_2 e^{-2x} + A_3 e^x + A_4 e^{-x}$$

$$y = A_1 e^{4x} + A_2 e^{2x} + \frac{1}{10} \sin x$$

$$y = (A_1 + A_2 x)e^{2x} + (A_3 + A_4 x)e^x + \frac{1}{10}\sin x$$

$$y = A_1 e^{2x} + A_2 e^{-2x} + A_3 e^x + A_4 e^{-x} + \frac{1}{10} \sin x$$

Question Number: 10 Question Id: 5105295218 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The particular integral of $\frac{d^3y}{dx^3} - 3\frac{d^2y}{dx^2} + 4\frac{dy}{dx} - 2y = e^x + \cos x$ is ______

$$C_1 e^x + e^x (C_2 \cos x + C_3 \sin x)$$

$$3. \checkmark xe^x + \frac{1}{10} (3\sin x + \cos x)$$

$$xe^x - \frac{1}{10}(3\sin x - \cos x)$$



Question Number: 11 Question Id: 5105295219 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The particular integral of $(D^2 + 9)y = \sec 3x$ is ______

Options:

$$\frac{x}{3}\sin x + \frac{1}{3}\cos x \cdot \log \cos 3x$$

$$\frac{x}{3}\sin 3x + \frac{1}{9}\cos 3x \cdot \log \cos 3x$$

$$\frac{x}{9}\sec 3x$$

$$\frac{x}{3}\cos 3x + \frac{1}{9}\sin 3x \cdot \log \cos 3x$$

Question Number: 12 Question Id: 5105295220 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The general solution of $y' + y = \frac{1}{1 + e^{2x}}$ is _____

Options:

$$y = e^{-x} Tan^{-1} e^{x} + c$$

$$y = e^{-x} \operatorname{Tan}^{-1} e^{x} + ce^{-x}$$

$$x = e^{-y} Tan^{-1} e^{y} + ce^{-y}$$

$$y = e^x Tan^{-1}e^x$$

Question Number: 13 Question Id: 5105295221 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Singular solution of
$$y = px + \frac{a}{p}$$
 is _____

1. *
$$y^2 = 2y$$



$$y = cx + \frac{a}{c}$$

$$y^2 = 4ax$$

Question Number : 14 Question Id : 5105295222 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

A differential equation of first order and first degree is homogenous,

Options:

$$\frac{dy}{dx} = \phi \left(\frac{y}{x}\right)$$

$$\frac{dy}{dx} = cons \tan t$$

$$\frac{dy}{dx} = \phi(x)$$

$$\frac{dy}{dx} = 1$$

4. 3

Question Number : 15 Question Id : 5105295223 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The particular integral (y_p) of $y'' + 4y = \tan 2x$ is _____

$$y_p = \frac{-1}{4} \cos 2x$$

$$y_p = \frac{1}{2} x e^{-x} \sin 2x - \frac{1}{4} e^{-x} \cos 2x$$



$$y_p = \frac{-1}{4}\cos 2x \cdot \log(\sec 2x + \tan 2x)$$

$$y_p = \sin 2x \cdot \log(\sec 2x + \tan 2x)$$

Question Number: 16 Question Id: 5105295224 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Consider the following statements

A)
$$(y^2+1)(x^2+1)=c$$
 is general solution of $(xy^2+x)dx+(yx^2+y)dy=0$

B)
$$Tan^{-1}y = x - \log(1+x) + c$$
 is general solution of $(x+1)\frac{dy}{dx} = x(y^2+1)$

C) log sin (y-x) =
$$\frac{x^2}{2} + c$$
 is general solution of $\frac{dy}{dx} - x \tan(y - x) = 1$

D) I.F of
$$\frac{dy}{dx} = \frac{x^2 + y^2}{xy}$$
 is $\frac{1}{x^3}$

Which of the above statements is true?

Options:

Question Number: 17 Question Id: 5105295225 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

$$\frac{dy}{dx} + py = Q.y''$$
 is Bernoulli's differential equation if ______

P, Q are constants or functions of x and
$$n \neq 0, n \neq 1$$



P, Q are functions of x and n=0

Question Number: 18 Question Id: 5105295226 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following differential equations is not exact?

Options:

$$(2xy+y-Tany)dx+(x^2-xTan^2y+\sec^2y)dy=0$$

$$y \sin 2x - (y^2 + \cos^2 x) dy = 0$$

$$2xydx + x^2dy = 0$$

$$(x^2 + y^2 + 2x)dx + 2ydy = 0$$

Question Number: 19 Question Id: 5105295227 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following statements is false?

Options:

$$\frac{d^3y}{dx^3} + \frac{d^2y}{dx^2} \times \frac{dy}{dx} + y = x \text{ is Non-linear differential equation}$$

$$x \frac{d^4y}{dx^4} + \frac{d^2y}{dx^2} = e^x$$
 is linear differential equation in y

$$\frac{dy}{dx} + y^2 = x^2$$
 is non-linear differential equation of degree 1

The order of differential equation of all circles of given radius is 1



The general solution of (ax+hy+g) dx + (hx+by+f)dy=0 is _____

Options:

$$ax^2 + 2hxy + by^2 = 0$$

$$ax^2 + 2hxy + by^2 + 2gx + 2fy = C$$

2.

3. *
$$ax^2 + 2hxy + By^2 + 2Gx + 2Fy = C$$

$$(ax+hy+g) (hx+by+f) = 0$$

Question Number : 21 Question Id : 5105295229 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

H is any subgroup of a group (G, .) and $a \in G$ and aH = H = Ha, then a

belong to _____

Options:

GUH

$$H$$
 ∩ G

Question Number : 22 Question Id : 5105295230 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The number of elements of order 10 in Z₃₀ is _____



3. **

30

Question Number : 23 Question Id : 5105295231 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If G is a group of order 15 and H is a subgroup of G of order 5, then H

Options:

- Cyclic subgroup
- Normal subgroup
- Ring
- Not a group

Question Number : 24 Question Id : 5105295232 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Let G be a finite group and $a \in G$ and H is a subgroup of G generated by a then consider the following statements

- A) O(a) = O(H)
- B) o(a)/o(G)
- C) $O(a) \neq O(H)$ D) O(G)=O(H)

Which of the above statements are true?

- 1. ♣ A & C
- 2. * B & C
- A, B & C
- 4. ✔ A & B

Question Number : 25 Question Id : 5105295233 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following statements are true?

- A) The order of every element of a finite group G is finite
- B) The order of every element of a finite group is infinite
- C) The order of every element of a finite group is rational
- D) The order of every element of a finite group is an integer.

Options:

Question Number : 26 Question Id : 5105295234 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Consider the following statements:

- A. The order of an element of an infinite group may be finite or infinite
- B. In S_n, the number of distinct cycles of length r ($r \le n$) is $\frac{n!}{r!(n-r)!}$
- C. If H and k are finite subgroups of a group G then o(HK)=o(H).o(k)
- D. Every Group of prime order is cyclic as well as abelian

Which of the above statements are true?



3. %

Question Number : 27 Question Id : 5105295235 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following statements is false?

Options:

Let G a group and p is prime number. If $O(G) = p^2$ then G need not be abelian

1. 🗸

Order of subgroup divides order of the group

Let G be a group of order 108. Then there exist a normal subgroup of order 9 or 27

The identity element of the group (G,\times) where $G = \left\{ \begin{pmatrix} a & a \\ a & a \end{pmatrix} : a \in R - \{0\} \right\} \&$

'x'represents matrix multiplication is $\begin{pmatrix} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{pmatrix}$

4. 💥

Question Number : 28 Question Id : 5105295236 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If in a group G, a⁵=e, aba⁻¹=b² ∀ a, b ∈ G then consider the following statements:

A)
$$b^4=a^2ba^{-2}$$
 B) $b^{16}=a^8ba^{-8}$ C) $o(b)=31 \& b \neq e$ D) $o(b)=32, b \neq e$

Which of the above statements are true?



only A & C

1. 3

only A, B & C

4. * A, B, C & D

Question Number : 29 Question Id : 5105295237 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following statement is true?

Options:

a, a^2 , are generators in the group $G = \{a, a^2, a^3, a^4 = e\}$

1. 3

If
$$C = (1234)$$
 then $C_2 = (13)(14)$

2. *

If G is a finite group and H is a normal subgroup of G then

 $O\left(\frac{G}{H}\right) = O(G).O(H)$

[G:H]=8 and [G:K]=4 then [K:H]=2

Question Number : 30 Question Id : 5105295238 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Every finite group of composite order possesses _____

Options:

Proper subgroups

1. 💙

Only improper subgroups



| 5 | 26 | No | sub | groups |
|---|----|----|-----|--------|
|---|----|----|-----|--------|

Proper subgroups of Prime order

Question Number: 31 Question Id: 5105295239 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

 $G = (\{1, 2, 3, \dots, 16\}, \times_{17})$ is a group then o(2)=_____

Options:

- 1 **
- 2 * 5
- ≥ * €
- 1 2 8

Question Number : 32 Question Id : 5105295240 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Every group of prime order is _____

Options:

- only Simple
- only Abelian
- only Normal
- Abelian, simple and normal

Question Number: 33 Question Id: 5105295241 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If G is a cyclic group of order 17 then the number of generators

is



- 1. 16
- 2 * 17
- 2 * 11
- 4. * 1

Question Number : 34 Question Id : 5105295242 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

For a group G of order 36 and H is any subgroup of G having order 4,

then _____

Options:

$$H \subset Z(G)$$

- 1. 3
- H = Z(G)
- H is normal in G
- H is an abelian group

Question Number: 35 Question Id: 5105295243 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If $1, \omega, \omega^2$ are the cube roots of unity, then the roots of the equation

$$(x-1)^3 + 8 = 0$$
 are _____

- -1, 1-2ω, 1-2ω²
- 3. ₩ -1, -1, -1



8, 8ω, 8ω²

Question Number : 36 Question Id : 5105295244 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Let F be the field of integers module 11. Then $x^2 + x + 5 =$ _____

Options:

- 1. * (x+1) (x+2)
- 2. * (x+2) (x+3)
- 3. **(x+3) (x+9)**
- 4. * (x+1) (x+5)

Question Number: 37 Question Id: 5105295245 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The number of prime ideals of Z₁₀₀ is _____

Options:

- 1. 🗸
- 2. ** 5
- 10
- 100

Question Number : 38 Question Id : 5105295246 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical



Consider the following statements:

- A) The idempotent element of Z₅ is 3
- B) $\frac{Z}{5Z}$ is isomorphic to Z_n
- C) Over Z, x2-5x+6 is irreducible
- D) The number of elements on the field $\frac{Z_{11}[x]}{\langle x^2+1\rangle}$ is 121

Which of the above statements are true?

Options:

- only A & C
- only B & D
- only A, C & D
- 4. * only C

Question Number : 39 Question Id : 5105295247 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The number of units in ring of Gaussian integers is _____

Options:

- 1. 🗸
- 2 2
- 3 % 3
- 4 * 1

Question Number: 40 Question Id: 5105295248 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The characteristic of an integral domain is _____



Options:

- 1 **
- 2 × α
- prime
- either zero or prime

Question Number : 41 Question Id : 5105295249 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Consider the following statements:

- A) A field has no proper ideals
- B) A ring of integers is a principal ideal ring
- C) The set of all 2x2 non-singular matrices over rationals is not a ring under matrices addition and multiplication.
- D) $Z(\sqrt{-5})$ is the set of complex numbers of the form $a+b\sqrt{-5}$ (where a & b are integers) is an integral domain

Which of the above statements are true?

Options:

Question Number: 42 Question Id: 5105295250 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If
$$(R, +, \cdot)$$
 is a ring then $(R, +)$ is _____



| Options: | | | | |
|---|--|--|--|--|
| A group | | | | |
| an abelian group | | | | |
| a finite group | | | | |
| need not be a group | | | | |
| Question Number : 43 Question Id : 5105295251 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical | | | | |
| A commutative ring with unity satisfying cancellation laws | | | | |
| is | | | | |
| Options : | | | | |
| not a field | | | | |
| skew field | | | | |
| an integral domain | | | | |
| a ring having no multiplicative inverse | | | | |
| Question Number : 44 Question Id : 5105295252 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical | | | | |
| An ideal U of a ring R is prime ideal if | | | | |
| Options: | | | | |
| for all $a,b \in R$ and $ab \in U \Rightarrow a \in U$ or $b \in U$ | | | | |
| for all $a,b \notin R$ and $ab \notin U$ | | | | |
| for same $a,b \in R$ and $ab \notin U \Rightarrow a \notin U$ or $b \in U$ | | | | |



 $a,b \in R$ $ab \in U \Rightarrow a \in U \cap R$, $b \notin R \cap U$

Question Number: 45 Question Id: 5105295253 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Let $f(x) = x^3 + 2x^2 + 1$ and $g(x) = 2x^2 + x + 2$. Then, over Z_3

Options:

- f(x) and g (x) are irreducible
- f(x) is irreducible but g (x) is reducible
- g(x) is irreducible but f(x) is reducible
- neither f(x) nor g (x) is irreducible

Question Number : 46 Question Id : 5105295254 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Let $W_1 = \{(x, y)/y = 3x\}$ $W_2 = \{(x, y)/y = x\}$ are subsets of vector space of $\mathbb{R}^2(R)$ then _____

Options:

- $W_1 \& W_2$ are not subspaces of \mathbb{R}^2
- $W_1 \& W_2$ are subspaces of \mathbb{R}^2 and $W_1 \oplus W_2 = \mathbb{R}^2$
- W_1 is a subspace of \mathbb{R}^2 but W_2 is not a subspace of \mathbb{R}^2
- 4. $W_1 + W_2 = V \text{ and } w_1 \cap w_2 \neq \{0\}$

Question Number: 47 Question Id: 5105295255 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical



Consider the following statements:

- A) (1,2,3) & (2,4,6) are linearly independent vectors in V₃ (R)
- B) {(1,2,4) (1,0,0) (0,1,0)(0,0,1)} is linearly dependent subset of vectors in V₃ (R)
- C) {(1,2,0) (0,3,1) (-1,0,1)} is linearly independent subset of vectors in V₃ (R)
- D) $\{(-1,2,1)(3,0,-1), (-5,4,3)\}$ is linearly independent subset of vectors in V_3 (R)

Which one of the following is true?

Options:

- 1. ✓ only B & C
- only B, C & D
- only B
- 4. * A, B, C & D

Question Number : 48 Question Id : 5105295256 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Each subspace W of a finite dimensional vector space V(F) of dimension n is a finite dimensional space with _____

- $\lim_{1. \infty} dim W > n$
- $\lim_{2. \checkmark} \dim W \leq n$
- 3. \approx $dim W < n^2$
- dim W > 2 n



Question Number : 49 Question Id : 5105295257 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Every n-dimensional vector space V (F) is isomorphic to _____

Options:

- 1. ✓ F'
- F^{n-1}
- ₹ ¥ Fⁿ⁺
- F"

Question Number: 50 Question Id: 5105295258 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If (1,-2, k) is a linear combination of the vectors (3, 0,-2) (2,-1-5) in \mathbb{R}^3 then $k = \underline{\hspace{1cm}}$

Options:

- 1 **
- 2 * -12
- 3. * 1-10
- 4. 🛷 -8

Question Number: 51 Question Id: 5105295259 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If $W_1 \& W_2$ are two subspaces of V (F) such that $\dim W_1 = 5$, $\dim W_2 = 3$ and $\dim (W_1 \cap W_2) = 1$ then $\dim (W_1 + W_2) =$

Options:

1. * 9



- 2. 🗱 3
- 3 / 7
- 4 * 2

Question Number: 52 Question Id: 5105295260 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The dimension of the space spanned by the vectors (1,2,1) (2,1,0)

(4,5,2) is _____

Options:

- 1 *
- 2 / 2
- 3 * 3
- 4. * 14

Question Number: 53 Question Id: 5105295261 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The mapping T: $\mathbb{R}^2 \to \mathbb{R}^2$ defined by $T(x_1, x_2) = (x_1^2, x_2)$ is _____

Options:

- 1. Not linear
- 2 a linear
- 3. * one to one
- not well defined

Question Number: 54 Question Id: 5105295262 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical



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|--|
| T is a linear operator on a vector space V such that T leaves every subspace of V invariant then |
| Options: |
| T must be identity operator |
| T must be a nilpotent operator |
| T is a scalar multiple of the identity operator |
| T has a minimal polynomial of degree zero |
| Question Number: 55 Question Id: 5105295263 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical The rank of linear transformation T: U→V is the dimension of the |
| Options : |
| Null space of T |
| Space U |
| Space V |
| Range of T |
| Question Number : 56 Question Id : 5105295264 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical |
| If T: $V_2 \rightarrow V_4$ is defined by T $(x,y) = (y,o,o,o)$ then T is |
| Options: |



1. * One-one only

2. ✓ onto only

neither one-one nor onto

bijection

Question Number: 57 Question Id: 5105295265 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If T: R³→R³ is an invertible operator defined by

$$T(x, y, z) = (2x, 4x-y, 2x+3y-z)$$
 then $T^{-1}(x, y, z) = ______$

Options:

$$\left(\frac{x}{2}, 2x + y, 7x - 3y - z\right)$$

$$\left(\frac{x}{2}, 2x + y, 7x + 3y - z\right)$$

$$\left(\frac{x}{2}, 2x - y, 7x - 3y - z\right)$$

$$\left(\frac{x}{2}, 2x - y, 7x + 3y + z\right)$$

4 %

Question Number : 58 Question Id : 5105295266 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If
$$A = \begin{pmatrix} 1 & 2 & 3 \\ 2 & -1 & 4 \\ 3 & 1 & -1 \end{pmatrix}$$
 then $A^{-1} = \underline{^{-1}}$

$$\frac{A^2 + 3A - 2}{20}$$

$$\frac{1}{20} \left(A^3 + 2A - 4I \right)$$



$$\frac{1}{40} \left(A^2 + A - 18 \right)$$

$$\frac{1}{40} \left(A^2 + A - 18I \right)$$

Question Number: 59 Question Id: 5105295267 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The product of Eigen values of $\begin{pmatrix} 8 & -6 & 2 \\ -6 & 7 & -4 \\ 2 & -4 & 3 \end{pmatrix}$ is ______

Options:

Question Number : 60 Question Id : 5105295268 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If the rank of a matrix $\begin{pmatrix} 1 & 2 & 3 & 0 \\ 2 & 4 & 3 & 2 \\ 3 & 2 & 1 & 3 \\ 6 & 8 & 7 & \alpha \end{pmatrix}$ is 3 then $\alpha =$ _____



Question Number: 61 Question Id: 5105295269 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

A plane meets the co-ordinate axes at A, B & C such that the centroid of the triangle ABC is the point (a, b, c) then equation of the plane is _____

Options:

$$\frac{x}{a} + \frac{y}{b} + \frac{z}{c} = 1$$

$$\frac{x}{a} + \frac{y}{b} + \frac{z}{c} = 0$$

$$ax + by + cz = 1$$

$$\frac{x}{a} + \frac{y}{b} + \frac{z}{c} = 3$$

Question Number: 62 Question Id: 5105295270 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The circum centre of the triangle formed by the points (3, 2, -5),

Options:

Question Number: 63 Question Id: 5105295271 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The equation of the plane through (2, 3, -4) and (1,-1, 3) parallel to the



$$3x+y+z=5$$

Question Number : 64 Question Id : 5105295272 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The bisector of the acute angle between the planes 2x-y-2z+3=0 and 3x-2y+6z+8=0 is _____

Options:

Question Number: 65 Question Id: 5105295273 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

When the equation of a line is expressed as two 1st degree equations in x,y,z then the number of arbitrary constants involved in the equation of that straight line is not more than ______



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- 3 * 2
- 1 2 0

Question Number: 66 Question Id: 5105295274 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The angle between the line $\frac{x+1}{3} = \frac{y-1}{2} = \frac{z-2}{4}$ and the plane 2x+y-3z-4=0

is _____

Options:

$$C \operatorname{os}^{-1} \left(\frac{-4}{\sqrt{406}} \right)$$

- 1. 💥
- Zero

$$Si \, \mathbf{n}^{-1} \left(\frac{-4}{\sqrt{406}} \right)$$

3.

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

1 2

 $Question\ Number: 67\ Question\ Id: 5105295275\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

The distance of the point (3, 8, 2) from the line $\frac{x-1}{2} = \frac{y-3}{4} = \frac{z-2}{3}$

measured parallel to the plane 3x+2y-2z+5=0 is _____

- 1 * 2
- 2 * 3



z **%** 5

4 4

Question Number: 68 Question Id: 5105295276 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The equation of a line parallel to $\frac{x}{2} = \frac{y}{3} = \frac{z}{1}$ and passing through the

point of intersection of the lines $\frac{x-1}{2} = \frac{y-2}{3} - \frac{z-3}{4}$ and $\frac{x-2}{3} = \frac{y-4}{4} = \frac{z-7}{4}$

is _____

Options:

$$\frac{x-5}{2} = \frac{y-8}{3} = \frac{z-11}{1}$$

 $\frac{x}{2} = \frac{y}{3} = \frac{2}{1}$

$$\frac{x+5}{2} = \frac{y+8}{3} - \frac{z+11}{1}$$

 $\frac{x}{1} = \frac{y}{3} = \frac{z}{2}$

Question Number: 69 Question Id: 5105295277 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If two spheres of radii 3 and 4 intersect orthogonally, then the radius of the circle common to these spheres is _____

Options:

1 * 7

2. 12/5

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3 % 5

4 * 8

Question Number: 70 Question Id: 5105295278 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The foot of the perpendicular from (3,-1,11) to the line $\frac{x}{2} = \frac{y-2}{5} = \frac{z-3}{4}$

is _____

Options:

$$(\frac{22}{45}, \frac{145}{45}, \frac{179}{45})$$

Question Number: 71 Question Id: 5105295279 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The centre of the sphere through the points (0,0,0),(a,0,0),(0,b,0)and

(0,0,c) is _____

$$\left(\frac{a}{2}, \frac{b}{2}, \frac{c}{2}\right)$$

$$\left(\frac{-a}{2}, \frac{-b}{2}, \frac{-c}{2}\right)$$



$$\left(\frac{a}{3}, \frac{b}{3}, \frac{c}{3}\right)$$

Question Number: 72 Question Id: 5105295280 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If the lines $\frac{x+1}{-3} = \frac{y+5}{2k} = \frac{z-4}{2}$ and $\frac{x-3}{3k} = \frac{y-2}{1} = \frac{z+1}{7}$ are perpendicular, then

the value of k is_____

Options:

Question Number: 73 Question Id: 5105295281 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The shortest distance between straight lines $\frac{x-3}{2} = \frac{y+15}{-7} = \frac{z-9}{5}$ and

$$\frac{x+1}{2} = \frac{y-1}{1} = \frac{z-9}{-3}$$
 is _____

Options:

- 1. ✓ 4√3

Question Number: 74 Question Id: 5105295282 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical



The angle between the planes x + y - z = 1 and 2x + y + 3z = -4 is (in degrees) _____

Options:

- 1 * 0
- 60
- 30
- 90

Question Number: 75 Question Id: 5105295283 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The radius of the sphere $x^2 + y^2 + z^2 - 2x + 4y - 6z = 2$ is ______

Options:

- 1. ** 2
- 2 4
- 2 %
- 1 %

Question Number : 76 Question Id : 5105295284 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

$$\lim_{n\to\infty} \frac{(n+2)! + (n+1)!}{(n+2)! - (n+1)!} = \underline{\hspace{1cm}}$$

- 1. * 0
- 2. * 100



- 3 / 1
- 4 * 2

Question Number: 77 Question Id: 5105295285 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If
$$f'(2) = 2$$
, $f''(2) = 1$ then $\lim_{x \to 2} \frac{2x^2 - 4f^1(x)}{x - 2} =$ _____

Options:

- (
- 1. 💥
- 2. *****
- 3 * 2
- 4

Question Number : 78 Question Id : 5105295286 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

$$\lim_{x \to 0} \frac{5x + |x|}{7x - 3|x|} =$$

Options:

- 2 5
- $\frac{3}{2}$
- × C
- does not exist

Question Number : 79 Question Id : 5105295287 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical



If
$$f(x) = \begin{cases} \log(1+x) - \log(1+bx), & x \neq 0 \\ k, & x = 0 \end{cases}$$

is continuous at x=0 then k = _____

Options:

- a-b
- 1-b
- 3. * 9/b
- 4 * 0/9

Question Number: 80 Question Id: 5105295288 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If
$$f(x) = \begin{cases} 2x - 1 \text{ when } x > 2 \\ k \text{ when } x = 2 \\ x^2 - 1 \text{ when } x < 2 \end{cases}$$

is continuous at x=2 then k = _____

Options:

- 1. **
- 2. * 4
- 3 * -3
- 4 3

Question Number: 81 Question Id: 5105295289 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If [y] represent the integer less than or equal to y and f: $R \rightarrow R$ defined as f(x) = [x] is continuous on _____



- R

Question Number : 82 Question Id : 5105295290 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The sum of the series $\sum_{n=1}^{\infty} \frac{1}{3^n}$ is _____

$$\sum_{n=1}^{\infty} \frac{1}{3^n}$$
 is _____

Options:

- 4. 1/2

Question Number: 83 Question Id: 5105295291 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

$$\sum_{n=1}^{\infty} \frac{x^n}{n^2}$$
 is convergent, for _____

- x>1

4. **x**≥1

Question Number: 84 Question Id: 5105295292 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If
$$\lim_{n\to\infty} S_n = S$$
 then $\lim_{n\to\infty} \frac{S_1 + S_2 + \dots + S_n}{n} = \underline{\hspace{1cm}}$

Options:

- 1 * 0
- does not exist
- 3 / 5
- s/2
 4. ₩

Question Number : 85 Question Id : 5105295293 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The derived set of $(1,5)\cup(7,10)$ is _____

Options:

- [1,10]
- [1,5] ∩ [7,10]
- [1,5] \cup [5,10]
- [1,5] ∪ [7,10]

Question Number: 86 Question Id: 5105295294 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

 $\sum_{n=1}^{\infty} \frac{(-1)^n}{n^p}$ is absolutely convergent for ______



- 1. * p<1
- 2. ***** p≤1
- 3. **✓** p>1
- 4. ***** p≥1

Question Number: 87 Question Id: 5105295295 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The value of θ in the Legrange's mean value theorem for

$$f(x) = x^3, a = 1 & h = \frac{1}{2}$$
 is _____

Options:

- 1. * 3
- $\sqrt{\frac{19}{56}}$
- $\sqrt{\frac{19}{3}} + 2$
- $\sqrt{\frac{19}{3}} 2$

Question Number : 88 Question Id : 5105295296 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Rolle's theorem cannot be applicable for _____

$$f(x) = \cos x - 1$$
 on $[0, 2\pi]$



$$f(x) = x(x-2)^2 in[0,2]$$

$$f(x) = 3 + (x-1)^{\frac{2}{3}} in [0,3]$$

$$f(x) = \sin^2 x$$
 in $[0, \pi]$

Question Number: 89 Question Id: 5105295297 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If on [2, 6],
$$f(x)$$
 $\begin{cases} 3, & when \ x \in \mathbb{Q} \\ -5, & when \ x \in \mathbb{R} - \mathbb{Q} \end{cases}$, then $\int_{\frac{\pi}{2}}^{6} f(x) dx$ and $\int_{\frac{\pi}{2}}^{6} f(x) dx$ are

respectively _____

Options:

Question Number: 90 Question Id: 5105295298 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

$$\int_{0}^{1} |1-x| dx = \underline{\hspace{1cm}}$$



Question Number: 91 Question Id: 5105295299 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If
$$f(x,y,z) = x + y + z$$
, $g(x,y,z) = x^2 + y^2 + z^2$, $h(x,y,z) = xy + yz + zx$, then

[grad f, grad g, grad h] = _____

Options:

- 1 * 1
- 2 0
- 3 * 11/2
- 4 * 10

Question Number : 92 Question Id : 5105295300 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If $\overline{f} = xy^2 \overline{i} + 2x^2 yz \overline{j} - 3yz^2 \overline{k}$ then at (1,-1,1) div $\overline{f} =$ _____

Options:

- 1 * 7
- 2 * 6
- 3 %
- 1 1 9

Question Number: 93 Question Id: 5105295301 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

$$\nabla^2 \left(\frac{1}{\mathbf{r}} \right) = \underline{\hspace{1cm}}$$



$$_{1.} \checkmark n(n+1)r^{n-2}$$

$$n(n-1)r^{n-2}$$

$$(n-1)r^{n-2}$$

Question Number : 94 Question Id : 5105295302 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Options:

- 1. an Irrotational vector
- a solenoidal vector
- constant vector
- a. * null vector

Question Number : 95 Question Id : 5105295303 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If \overline{A} and \overline{B} are two irrotational vectors then $\overline{A} \times \overline{B}$ is ______

- 1. * an Irrotational vector
- 2. a solenoidal vector
- Constant vector
- normal vector



Question Number: 96 Question Id: 5105295304 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

 $div(\nabla \emptyset \times \nabla f) = \underline{\hspace{1cm}}$

Options:

- 1 * 2
- 2 * 1
- 3 /
- null vector

Question Number: 97 Question Id: 5105295305 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Circulation of $\overline{F} = (y-2x)\overline{i} + (3x+2y)\overline{j}$ along the circle $x^2+y^2=4$ in the xy-plane is

Options:

- 1 4 87
- 2 **×** 6π
- 3 * 37
- 4 💥

Question Number : 98 Question Id : 5105295306 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Let S: $x^2 + y^2 + z^2 = 1$ be a sphere. $\int_{c} \left(ax \, \overline{i} + by \, \overline{j} + cz \, \overline{k} \right) \cdot \overline{N} ds = \underline{\hspace{1cm}}$

- 1 * a+b+c
- 2. ***** 4π (a+b+c)



3.
$$\sqrt[4\pi]{3}$$
 $(a+b+c)$



Question Number: 99 Question Id: 5105295307 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

 $\oint_C (x^2 + y^2) dx + 3xy^2 dy$ over the circle C: $x^2 + y^2 - 4 = 0$ is _____

Options:

- 1 * 12
- 2. * 125
- 3 🗱 π
- $4. \checkmark 12\pi$

Question Number: 100 Question Id: 5105295308 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If $\overline{F} = (x+3y)\overline{i} + (y-2z)\overline{j} + (x+pz)\overline{k}$ is solenoidal vector then $p = \underline{\hspace{1cm}}$

Options:

- 1 * 2
- 2. 🗸 -2
- 2 * 4
- 4. **

Display Number Panel: Yes
Group All Questions: No



Question Id: 5105295309 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension

Questions : No

Question Numbers : (101 to 110)

Question Label : Comprehension

(Questions 1-10)

To answer the questions from 1 to 10 given in the right side, the statement I and statement II are such that

- (1) The data given in statement I alone is sufficient
- (2) The data given in statement II alone is sufficient
- (3) The data given in both statements I and II put together are sufficient but neither of the statement alone is sufficient
- (4) The data given in both statements I and II put together are not sufficient and additional data is needed

Select one of the four options 1, 2, 3 or 4

Sub questions

Question Number: 101 Question Id: 5105295310 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which code word stands for 'good' in the coded sentence 'sin co bye' which means

'He is good'?

Statements:

I: In the same code language, 'co mot det' means 'They are good'

II: In the same code language, 'sin mic bye' means 'He is honest'

- 1. 🗸 1
- 2 * 2
- 3 # 3



4. * 4

Question Number: 102 Question Id: 5105295311 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

What is the numerical code for 'water' in a certain code?

Statements:

- I: The code for 'give me water' is '719'
- II: The code for 'you can bring water for me' is written as '574186'

Options:

- 1. * 1
- 2 * 2
- 5 %
- 1 4

Question Number: 103 Question Id: 5105295312 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

How is J related to P?

Statements:

- I: M is brother of P and T is sister of P.
- II: P's mother is married to J's husband who has one son and two daughters.

Options:

- 1 88 1
- 2 # 2
- 3 / 3
- 4 * 4

Question Number: 104 Question Id: 5105295313 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

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Who is to the immediate right of P among five persons P, Q, R, S and T facing

North?

Statements:

- I: R is third to the left of Q and P is second to the right of R
- II: Q is to the immediate left of T who is second to the right of P

Options:

- 1. 🗸 1
- 2 ** 2
- 3. * 3
- 4. * 4

Question Number : 105 Question Id : 5105295314 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

In which direction is Rahul facing?

Statements:

- I: In the early morning Rahul was standing by the side of a puppet and the shadow of puppet was falling on Rahul
- II: In the early morning Rahul was standing on the ground. His shadow was falling behind him when he turned to his left.

- 1. **
- 2 / 2
- 3 %
- 4 * 4



Question Number: 106 Question Id: 5105295315 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

On which day of the week did Hitesh visit the zoo?

Statements:

- I: Hitesh did not visit zoo either on Tuesday or on Thursday
- II: Hitesh visited zoo two days before his mother reached his house which was the day after Monday

Options:

- 1. * 1
- 2
- 2 %
- 4 * 4

Question Number: 107 Question Id: 5105295316 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

How many girls are taller than Shravan in his class?

Statements:

- I: When students of Shravan's class are ranked in descending order of their heights, Shravan's rank is 17th from the top among all the students and 12th among boys.
- II: Shravan's rank from the bottom on the basis of height among boys is 18th and 29th rank among all students.

- 1. 1
- 2 * 2



3 * 3

4 * 4

Question Number : 108 Question Id : 5105295317 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

How much money do Vivek and Suman have together?

Statements:

- I: Suman has 20 rupees less than what Tarun has
- II: Vivek has 30 rupees more than what Tarun has

Options:

- 1 % 1
- 2 * 2
- 2 %
- 4 / 4

Question Number: 109 Question Id: 5105295318 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

How many employees of Bank Z opted for Voluntary Retirement Scheme (VRS)?

Statements:

- I: 18 % of the 950 officer cadre employees and 6 % of the 1100 other cadre employees opted for VRS
- II: 28 % of the employees in the age group of 51 to 56 and 17 % of the

employees in all other age groups opted for VRS

Options:

1. 🗸 1



- 2 2
- Z 💥
- 4 × 4

Question Number: 110 Question Id: 5105295319 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

What time did the train leave today?

Statements:

- I: The train normally leaves on time
- II: The scheduled departure is at 14: 30

Options:

- 1. * 1
- 2 # 2
- 3. * 3
- 4. 4

Question Number: 111 Question Id: 5105295320 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The number which comes in the blank space of the sequence

- 1. 🗸 36
- 2 * 38
- 3 * 42

4. * 46

Question Number: 112 Question Id: 5105295321 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The number which comes in the blank space of the sequence

1, 1, 2, 6, 24, ____, 720 is

Options:

- 100
- 2 × 104
- 108
- 4. 🗸 120

Question Number: 113 Question Id: 5105295322 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

One term in the number series 4, 10, 22, 46, 96, 190, 382 is wrong. It is _____

Options:

- 1 * 4
- 2 * 10
- 3. ✔ 96
- 382

Question Number: 114 Question Id: 5105295323 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

One term in the number series 2, 3, 4, 4, 6, 8, 9, 12, 16 is wrong. It is _____

- 1 * 3
- 2. * 6



| | | 0 |
|---|----------|---|
| 3 | V | - |

Question Number: 115 Question Id: 5105295324 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The missing letter (?) in the series A, D, H, M, ?, Z is

Options:

- , ,]
- G
- N N
- 4 4 5

Question Number: 116 Question Id: 5105295325 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The next letter pair which comes in the series AZ, CX, FU is

Options:

- 1 × IR
- 2 * IV
- 3 V JQ
- KP

Question Number: 117 Question Id: 5105295326 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The missing term in the letter number series

N5V, K7T, ?, E14P, B19N is

Options:

1. * H9R



- 2. **×** H10Q
- 3. **✓** H10R
- 4 ₩ H9R

Question Number: 118 Question Id: 5105295327 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The term which does not fit into the letter number series:

1CV, 5FU, 9IT, 15LS, 17OR is

Options:

- 1. × 5FU
- 2. V 15LS
- 9IT
- 4. × 170R

Question Number: 119 Question Id: 5105295328 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The missing letter of the series a bd da dbc b dc in the order they

appear is

Options:

- aa b b c
- bbcca
- caabb
- 4. V ccbaa

Question Number: 120 Question Id: 5105295329 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical



The missing letters of the series

a bc a bcda ccd bcd in the order they appear is

Options:

- abddbd
- acbdbb
- adbbad
- 4. * adbcad

Question Id: 5105295330 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension

Questions : No

Question Numbers : (121 to 125)

Question Label : Comprehension



(Questions 21 - 25)

The following table gives the sales of batteries manufactured by a company over the years. Study the table and answer the questions from 21 to 25 given in the right side:

NUMBER OF DIFFERENT TYPES OF BATTERIES SOLD BY A COMPANY OVER

THE YEARS

(NUMBERS IN THOUSANDS)

| Types of Batteries | | | | | | | |
|--------------------|------|------|-------|-------|-------|-------|--|
| Year | 4 AH | 7 AH | 32 AH | 35 AH | 55 AH | Total | |
| 1992 | 75 | 144 | 114 | 102 | 108 | 543 | |
| 1993 | 90 | 126 | 102 | 84 | 126 | 528 | |
| 1994 | 96 | 114 | 75 | 105 | 135 | 525 | |
| 1995 | 105 | 90 | 150 | 90 | 75 | 510 | |
| 1996 | 90 | 75 | 135 | 75 | 90 | 465 | |
| 1997 | 105 | 60 | 165 | 45 | 120 | 495 | |
| 1998 | 115 | 85 | 160 | 100 | 145 | 605 | |
| | | | | | | | |

Sub questions

Question Number : 121 Question Id : 5105295331 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The type of the battery which has maximum sales in all the seven years is _____

Options:

1. * 4 AH

2. **%** 7 AH

32 AH



4. **≈** 35 AH

Question Number: 122 Question Id: 5105295332 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The difference in the number of 35 AH batteries sold in 1993 and 1997 is

Options:

- 24000
- 28000
- 35000
- 4. 39000

Question Number: 123 Question Id: 5105295333 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The percentage of 4 AH batteries sold to the total number of batteries sold was

maximum in the year?

Options:

- 1994
- 1995
- 3. * 1996
- 4. 1997

Question Number: 124 Question Id: 5105295334 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The type of battery which has continuous decrease in sales from 1992 to 1997

is _____

Options :

4 AH



- 2. V 7 AH
- 32 AH
- 35 AH

Question Number : 125 Question Id : 5105295335 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The approximate percentage increases in the sales of 55 AH batteries in 1998

compared to that in 1992 is _____

Options:

- 28 %
- 31 %
- 33 %
- 4. 🗸 34 %

Question Id: 5105295336 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension

Questions : No

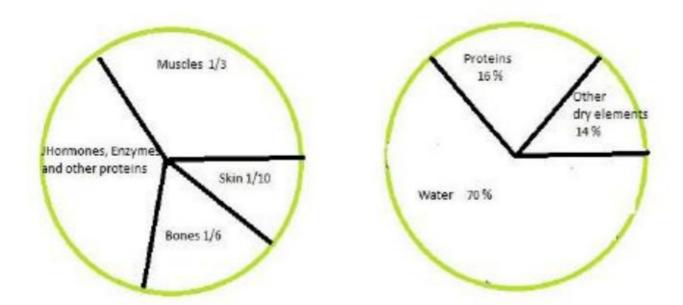
Question Numbers : (126 to 130)

Question Label : Comprehension



(Questions 26 - 30)

Study the following graphs carefully and answer the questions from 26-30



Distribution of proteins in human Body Distribution of elements in human body

Sub questions

Question Number : 126 Question Id : 5105295337 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is the ratio of the distribution of the proteins in the muscles to that of the

distribution of proteins in the bones?

Options:

- 1:2
- 2. 2:1
- 3. 🕷 18: 1
- 4. * 1:18

Question Number: 127 Question Id: 5105295338 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

What per cent of the total weight of the human body is equivalent to the weight of

the skin in the human body?

Options:

1. * 0.016



- 2. 1.6
- 0.16
- Insufficient information

Question Number: 128 Question Id: 5105295339 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

To show the distribution of proteins and other dry elements in the human body, the

angle subtended by the arc of the circle at the centre an angle should be

Options:

- 1. × 126°
- 54°
- 3. **√** 108°
- 4. ***** 252°

 $Question\ Number: 129\ Question\ Id: 5105295340\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

What will be the quantity of water in the body of a person weighing 50 kg?

Options:

- 1. × 20 kg
- 2. **✓** 35 kg
- 41 kg
- 4. * 42.5 kg

Question Number: 130 Question Id: 5105295341 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical



In the human body, what part is made of neither bones nor skin?

Options:

- 1. * 2/5
- 2. 11/15
- 3. * 1/40
- 4. * 3/80

Question Number: 131 Question Id: 5105295342 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If, in a code, MIND becomes KGLB and ARGUE becomes YPESC, then what

will DIAGRAM be in that code?

Options:

- BGYEPYK
- BGYPYEK
- GLPEYKB
- LKBGYPK

Question Number: 132 Question Id: 5105295343 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If in a certain language, FLOWER is coded as UOLDVI, then how is TERMINAL

coded in that language?

- * FLKPMROZ
- 2. **✓** GVINRMZO



- 3. * RVNIGLKA
- MNIVGYEO

Question Number: 133 Question Id: 5105295344 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In a code language, SOLID is written as WPSLPIMFHA. What does the code

word ATEXXQIBVO refer to?

Options:

- 1. WATER
- WAGER
- EAGER
- WAFER

Question Number: 134 Question Id: 5105295345 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In a certain code, DECEMBER is written as ERMBCEDE. Which word will be

written as ERMBVENO in that code?

Options:

- 1. * AUGUST
- SEPTEMBER
- OCTOBER
- 4. ✓ NOVEMBER

Question Number: 135 Question Id: 5105295346 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical



If R is denoted by N, D is denoted by T, I by U, O by I, E by R, T by O, U by D,

N by C and C by E, then how will the word INTRODUCE be written?

Options:

- UCONIDTER .
- UCONITDER 2. ✔
- UCONTIDER
- UCOINTDER

Question Number: 136 Question Id: 5105295347 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If the word PORTER can be coded as MBNZQN, how can REPORT be written?

Options:

- NQMNBZ
- 2. NQMBNZ
- NBQMNZ
- 4. NQBMNZ

Question Number: 137 Question Id: 5105295348 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If ZIP = 198 and ZAP = 246, then how will you code VIP?

- 1. * 174
- 2. 222
- 3 * 888
- 4 # 990



| Question Number: 138 Question Id: 5105295349 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical |
|---|
| If DRIVER = 12, PEDESTRIAN = 20, ACCIDENT = 16, then CAR = ? |
| Options: |
| 1. * 3 |
| 2. 🗸 6 |
| 3. * 8 |
| 4. * 10 |
| Question Number: 139 Question Id: 5105295350 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical |
| If 'eraser' is called 'box', 'box' is called 'pencil', 'pencil' is called 'sharpener' and |
| 'sharpener' is called 'bag', what will a child write with? |
| Options: |
| 1. * Eraser |
| 2. * Box |
| Pencil Pencil |
| Sharpener 4. |
| |
| Question Number: 140 Question Id: 5105295351 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical |
| In certain code language, '123' means 'bright little boy'; '145' means 'tall big boy' |

and '637' means 'beautiful little flower'. Which digit in that language means

'bright'?

- 1. * 1
- 2. 🗸 2



| TC ECET 2019 |
|---|
| TS ECET 2018 |
| 3. * 3 |
| 4. * 4 |
| Question Number: 141 Question Id: 5105295352 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Pointing towards a boy, Veena said, 'He is the son of only son of my grandfather'. |
| rolling towards a boy, veella said, Tie is the son of only son of my grandfather. |
| How is that boy related to Veena? |
| Options: |
| 1. W Uncle |
| 2. W Brother |
| Cousin 3. * |
| Data inadequate |
| Question Number: 142 Question Id: 5105295353 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical |
| A girl introduced a boy as the son of the daughter of the father of her uncle. The boy |
| is girl's |
| Options: |
| 1. ✔ Brother |
| 2. Son |
| 3. Wuncle |

Question Number : 143 Question Id : 5105295354 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Son-in-law



In a joint family, there are father, mother, 3 married sons and one unmarried daughter. Of the sons, two have 2 daughters each, and one has a son. How many

female members are there in the family?

Options:

- 1. * 2
- 2 * 3
- 3 * 6
- 1 4 9

Question Number: 144 Question Id: 5105295355 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

A, B and C are sisters. Dis the brother of E and E is the daughter of B. How

is A related to D?

Options:

- Sister
- 2 & Cousin
- 3. Niece
- 4. Aunt

Question Number: 145 Question Id: 5105295356 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

'A' does a work in 10 days and 'B' does the same work in 15 days. In how

many days they together will do the same work?

- 1. × 5 days
- 2. **6** days



3. **8** days

| 4. * 9 days |
|---|
| Question Number: 146 Question Id: 5105295357 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical |
| An athlete runs 200 meters race in 24 seconds. His speed is? |
| Options: |
| 20 km / hour |
| 2. * 24 km / hour |
| 3. * 28.5 km / hour |
| 4. 30 km / hour |
| Question Number: 147 Question Id: 5105295358 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical |
| January 1, 2004 was a Thursday. What day of the week lies on January 1, 2005? |
| Options: |
| 1. * Thursday |
| 2. * Friday |
| 3. Saturday |
| 4. * Sunday |
| Question Number: 148 Question Id: 5105295359 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical A Clock is started at noon. By 10 minutes past 5, the hour hand has turned |
| through |
| Options: |
| 1. * 145 degree angle |
| 2. * 150 degree |



TS ECET 2018 3. 155 degree 4. * 160 degree Question Number: 149 Question Id: 5105295360 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical How many words with or without meaning, can be formed by using all the letters of the word 'DELHI', using each letter exactly once? **Options:** 1. * 10 2. # 25 3. * 60 4. 120 Question Number: 150 Question Id: 5105295361 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical In how many ways can a group of 5 men and 2 women be made out of a total of 7 men and 3 women? Options:

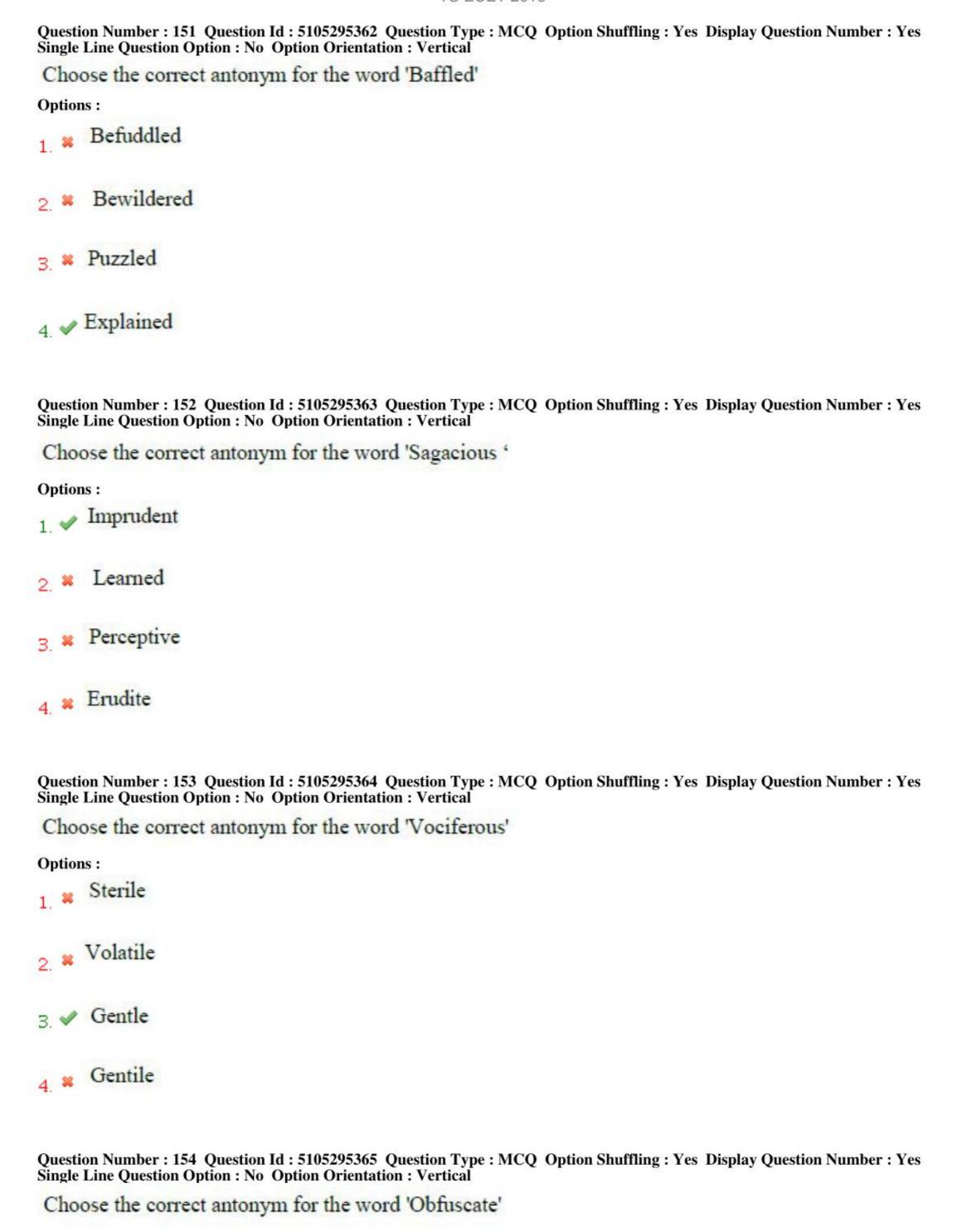


Yes

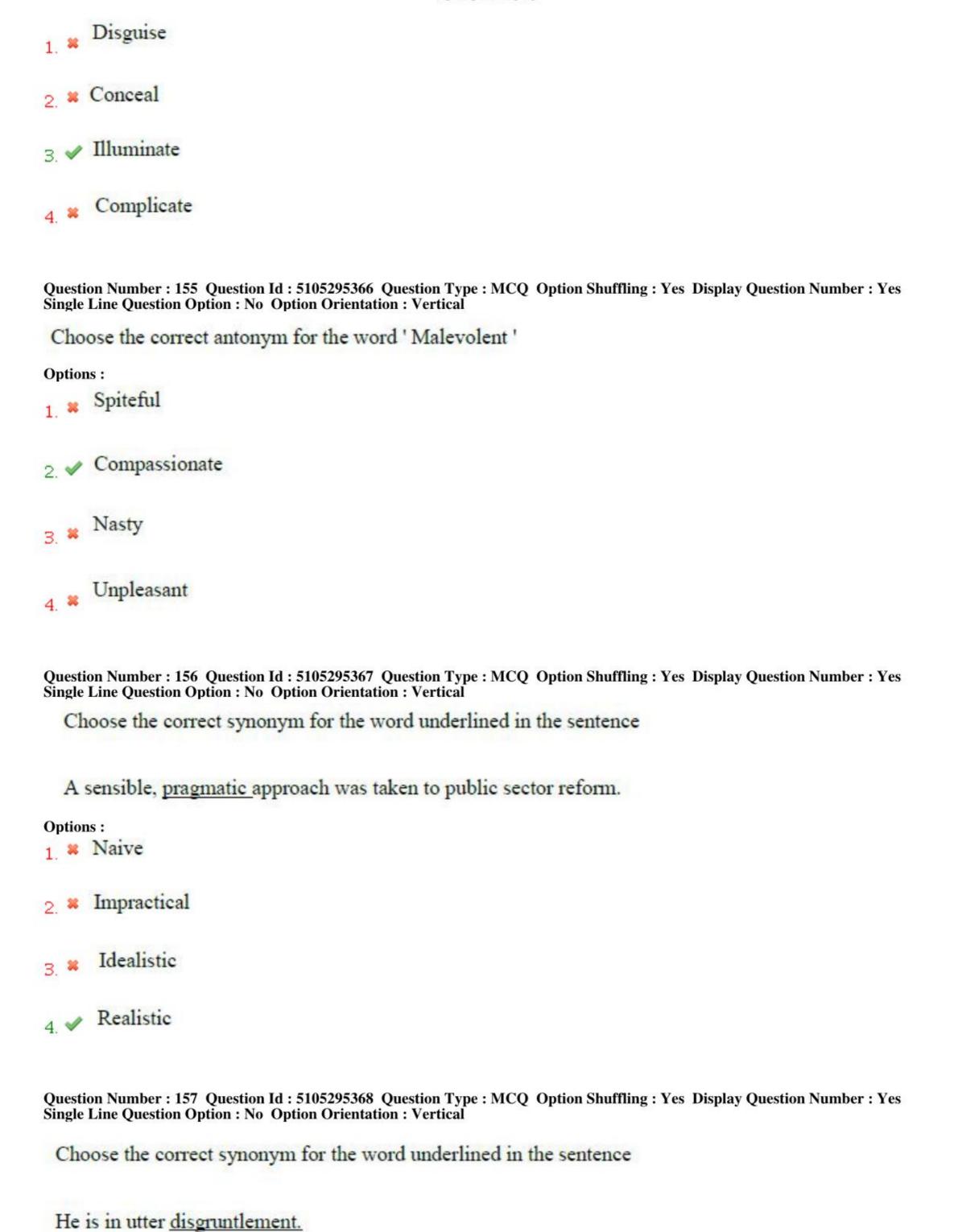
No

Display Number Panel:

Group All Questions:









Options: 1. * Contentment Satisfaction Gratification 4. Restlessness Question Number : 158 Question Id : 5105295369 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Choose the correct synonym for the word underlined in the sentence The goal is to augment social interactions during collaborative learning. **Options:** 1. Curtail 2. Supplement Reduce Weaken Question Number: 159 Question Id: 5105295370 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Choose the correct synonym for the word underlined in the sentence The pernicious cycle of abuse within their family must be stopped **Options:** 1. W Undisruptive Nontoxic

Question Number: 160 Question Id: 5105295371 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Undamaging

4. V Insidious



Choose the correct synonym for the word underlined in the sentence

The critics love the director's latest film and consider it to be the quintessential horror



Options:

- 1. W Unconventional
- 2. * Indistinduished
- 3. * Atypical
- 4. ZExemplary

 $Question\ Number: 161\ Question\ Id: 5105295372\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Choose the correct one word substitute for 'A person who never drinks alcohol'

Options:

- 1 * Dipsomaniae
- 2. * Tippler
- 3. Wino
- 4. Teetotaller

Question Number: 162 Question Id: 5105295373 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Choose the correct one word substitute for 'One who is sacred of spiders'.

- 1. Arachnophobia
- Acrophobia
- 3. * Agoraphobia
- 4. * Ophidiophobia



Question Number: 163 Question Id: 5105295374 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Choose the correct one word substitute for the phrase 'one who has the fear of dogs'.

Options:

- 1. * Xenophobia
- 2. V Cynophobia
- 3. * Gynophobia
- 4 & Cacophobia

Question Number : 164 Question Id : 5105295375 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The department is regularly visited by illustrious scholars.

The difference in content and emphasis are illustrative.

Options:

- 1. * Distinguished, literal
- 2. W Eminent, symbolic
- Heinous, implicit
- 4 * Repulsive, inexpressive

Question Number: 165 Question Id: 5105295376 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Identify the meanings given in the options for the confusables underlined in the sentences

given.

I'm not sure whether he is from Bolton or from Blackpool.

I am certain that the weather is going to be fantastic tomorrow.

- 1. Alternative, atmosphere
- 2. Replicate, climate



- 3. * Alter, adopt
- 4. * Amplify, modify

Question Number: 166 Question Id: 5105295377 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Identify the meanings given in the options for the confusables given

That roof tile is loose and might fall at any minute.

You must not lose that cheque.

Options:

- Deprecate, honour
- 2. * Vibrate, desolate
- 3. Not Fastened, forego
- 4. * Contained, depleted,

Question Number: 167 Question Id: 5105295378 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Choose the meaning of the underlined phrasal verb from the given options.

By working part-time and looking after her kids two days a week, she managed to get the

best of both worlds."

Options:

- To analyse the best of two opportunities
- To arrive at a conclusion
- To lose two different opportunities
- 4. To enjoy two different opportunities

Question Number: 168 Question Id: 5105295379 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical



Choose the meaning of the underlined phrasal verb from the given options "Fuel these

days costs and arm and a leg".

Options:

- Something very expensive.
- 2. Something very innovative
- 3. Something involving parts of the body
- 4. Something very absurd

Question Number: 169 Question Id: 5105295380 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Identify the tense form in the sentence given

They have been fighting since morning.

Options:

- 1. * Present continuous
- 2. Present perfect continuous
- 3. * Present perfect
- 4. * Past perfect continuous

Question Number: 170 Question Id: 5105295381 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Identify the tense form in the sentence given

The dancers have performed well.

- 1. Simple past
- 2 Simple present
- 3. Present perfect



4. * Past perfect

| | uestion Id : 5105295382 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes on : No Option Orientation : Vertical |
|-----------------------------|---|
| | ence with correct prepositions. |
| She is allergic | insect stings. |
| Options : | |
| 1. ✓ T o | |
| 2. * At | |
| 3. * For | |
| 4. With | |
| Single Line Question Option | uestion Id: 5105295383 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes on: No Option Orientation: Vertical ence with correct prepositions |
| I'm lookingn | ny keysmorning. Have you found them? |
| Options : | |
| 1. * At, since | |
| 2. * For, into | |
| 3. ✓ For, since | |
| 4. * In, since | |
| | uestion Id : 5105295384 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes on : No Option Orientation : Vertical |
| Complete the senten | nce with correct prepositions. |
| Munich lies 530 me | terssea level. |
| Options: | |
| 1. Above | |
| From | |



| 3. * Across |
|---|
| 4. * About |
| Question Number: 174 Question Id: 5105295385 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical |
| Complete the sentence with correct prepositions. |
| We liveLondon. |
| Options: |
| 1. * On |
| 2. % At |
| 3. VIn |
| 4. * For |
| Question Number: 175 Question Id: 5105295386 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Complete the sentence with correct prepositions. |
| my wall, there are many picture postcards. |
| Options: |
| 1. * Above |
| 2. % In |
| ∃. ✔ On |
| 4. * By |
| Question Number: 176 Question Id: 5105295387 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical |
| Identify the sentence in which the subject is in agreement with the verb. |
| Neither Shyam nor the personal assistantsthe keys to the stationery |
| cupboard. |
| Options: |



| | Neither Shyam nor the personal assistants have the keys to the stationery |
|--------|---|
| 1. 🗸 | cupboard. |
| | Neither Shyam nor the personal assistants has the keys to the stationery |
| 2. 🕷 | cupboard. |
| | Neither Shyam nor the personal assistants are having the keys to the stationery |
| 3. 🕷 | cupboard. |
| | Neither Shyam nor the personal assistants do have the keys to the stationery |
| 4. 🕷 | cupboard. |
| Single | on Number: 177 Question Id: 5105295388 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Line Question Option: No Option Orientation: Vertical |
| Ide | ntify the sentence in which the subject is in agreement with the verb. |
| Eith | er the stewardsor Marymanning the info desk at the conference. |
| Option | ns: |
| 1. ** | Either the stewardsor Mary are manning the info desk at the conference. |
| 2. 🗱 | Either the stewardsor Mary will be manning the info desk at the conference. |
| 3. 🗸 | Either the stewardsor Mary is manning the info desk at the conference. |
| 4. * | Either the stewardsor Mary were manning the info desk at the conference. |
| Single | on Number: 178 Question Id: 5105295389 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Line Question Option: No Option Orientation: Vertical ntify the sentence in which the subject is in agreement with the verb. |
| The 1 | president and chief executive of the companyarrived . |
| Option | ns: |
| 1. 🕊 | The president and chief executive of the company have arrived. |
| 2. 🗸 | The president and chief executive of the company has arrived. |



| The president and chief executive of the company has been arrived. |
|---|
| 4. * The president and chief executive of the company have been arrived. |
| Question Number: 179 Question Id: 5105295390 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical |
| Identify the sentence in which the subject is in agreement with the verb |
| Either my children or their friendswritten the letter. |
| Options: |
| Either my children or their friends has written the letter. |
| Either my children or their friends was written the letter. |
| 3. W Either my children or their friends have written the letter. |
| Either my children or their friends were written the letter. |
| Question Number: 180 Question Id: 5105295391 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical |
| Identify the sentence in which the subject is in agreement with the verb. |
| Everyoneto succeed in life. |
| Options: |
| 1. * Everyone want to succeed in life. |
| 2. VEveryone wants to succeed in life. |
| 3. * Everyone wanted to succeed in life |
| 4. * Everyone wanting to succeed in life. |
| Question Number: 181 Question Id: 5105295392 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical |
| Identify the suitable option for changing the sentence from active to passive or passive |
| to active. |
| The arts students visited the museum (active) |



Options:

- The museum was visited by the arts students.
- The museum will be visited by the arts students.
- The museum were visited by the arts students.
- The museum is visited by the arts students.

Question Number: 182 Question Id: 5105295393 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The last cookie was eaten by whom? (passive)

Options:

- Who has eaten the last cookie?
- 2. Who ate the last cookie?
- Who had eaten the last cookie?
- Who has ate the last cookie?

Question Number: 183 Question Id: 5105295394 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Identify the suitable option for changing the sentence from active to passive.

Give him some money.

Options:

- Please give him some money.
- Let us give him some money.
- Let him be given some money.
- Let he be given some money.

Question Number: 184 Question Id: 5105295395 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Can we change the curtains?

collegedunia

Options:

- 1. Can the curtains be changed?
- 2 * Could the curtains be changed?
- 3. * Can the curtains changed?
- Can we change the curtains?

Question Number: 185 Question Id: 5105295396 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Did you understand the lesson?

Options:

- 1. Was the lesson understood by you?
- Was the lesson understand by you?
- 3. * Did the lesson understood by you?
- Does the lesson understand by you?

Question Number: 186 Question Id: 5105295397 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Choose the correct form of sentence from the options given.

Options:

- He is Daniel in judgment.
- He is the Daniel in judgment.
- 3. Whe is a Daniel in judgment.
- 4. * He is an Daniel in judgment.

Question Number: 187 Question Id: 5105295398 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Choose the correct form of sentence from the options given.

Options :

1. * The clock has struck five hours.



- 2. The clock has struck five.
- The clock has struck five O clock.
- 4. * The clock has struck a five hours.

Question Number: 188 Question Id: 5105295399 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Choose the correct form of sentence from the options given.

Options:

- I have a good news for you.
- 2. I have good news for you.
- I have the good news for you.
- I have an good news for you.

Question Number: 189 Question Id: 5105295400 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Choose the correct form of sentence from the options given.

Options:

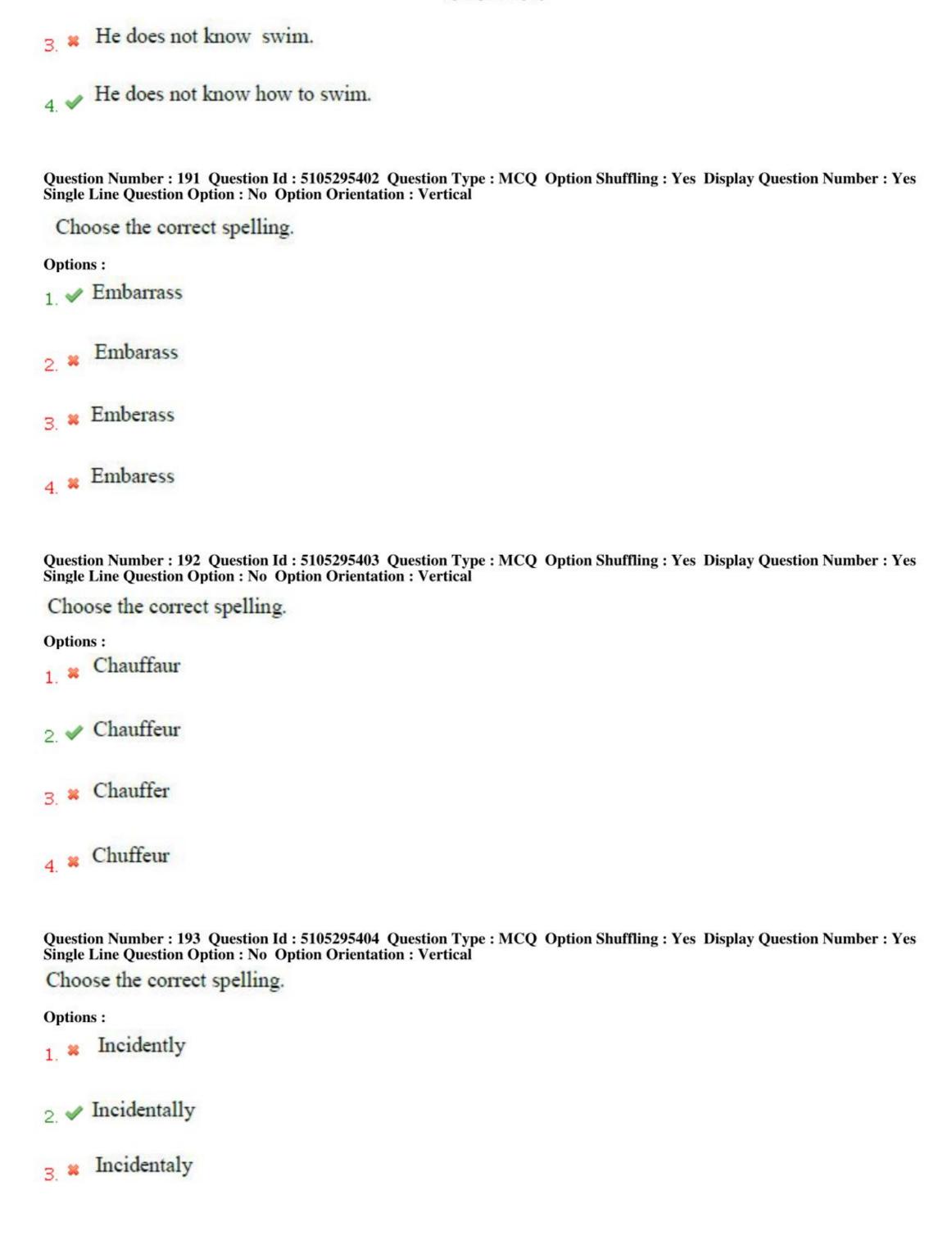
- 1. * He absented from the school yesterday.
- He absented himself from school yesterday.
- 3. * He absented himself the school yesterday.
- 4. He absented himself from the school yesterday.

Question Number: 190 Question Id: 5105295401 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Choose the correct form of sentence from the options given.

- He do know how to not swim.
- 2. * He does not know to swim.







4. * Incidentelly

Question Number : 194 Question Id : 5105295405 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Choose the correct spelling.

Options:

- Florescent
- 2 * Fluoresent
- 3. V Fluorescent
- 4. * Fluorecent

Question Number: 195 Question Id: 5105295406 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Choose the correct spelling.

Options:

- 1. Occurrence
- 2 # Occurance
- 2 & Ocurence
- 4 V Occurrence

Question Id: 5105295407 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension

Questions : No

Question Numbers : (196 to 200)

Question Label : Comprehension



Read the following passage and answer the questions that follow.

Oscar Wilde's shorter fiction includes memorable fairytales, witty comedies, and daring narrative experiments: all are contained
in this enchanting collection. His collection includes best-loved stories
such as 'The Happy Prince', 'The Selfish Giant', and 'Lord Arthur Savile's
Crime' as well as the innovative 'Portrait of Mr. W. H.', about the
mysterious dedicatee of Shakespeare's sonnets. An Appendix reprints an
important passage from the book-length version of 'The Portrait of Mr. W.
H.' on the Neo-Platonic ideal of friendship between men, an important key
to the short story's meaning. The Introduction argues for Wilde's
originality and literary achievement as a short-story writer, emphasizing
his literary skill, and discussing the periodicals in which they first
appeared, their intended readership, and their enduring value.

I have nothing to declare but my genius' Wilde once told a customs official. But the popular image of Wilde as a man of effortless achievement and wit is far from the truth. Born in Dublin, Ireland the son of a nationalist poetess he studied at Trinity College, Dublin before going on to Magdalen College, Oxford. It was here that he allied himself with Aestheticism - Art for Art's sake - and adopted his characteristic Aesthetic dress and haircut (based on a costume he wore to an undergraduate ball). Though well known as a socialite, Wilde received little recognition as an artist for many years until the play 'Lady Windermere's Fan' established his literary fame in 1892. But success was extremely short lived. On the opening night of his masterpiece 'The Importance of Being Earnest' in 1895 the Marquess of Queensberry, father of Lord Alfred Douglas with whom Wilde was having a relationship, began a public vendetta against him. An ill-advised attempt to sue for slander led to a conviction on a morals charge and time in Reading Jail. On his release, Wilde lived in selfimposed exile in France where he died in obscurity. Throughout his life, Wilde retained a deep affection towards children. His marriage in 1884 to Constance Lloyd produced two boys to whom Wilde was devoted and her decision to keep them from him following his conviction was devastating. Wilde's short stories were written at a time when he had begun to moderate his literary ambitions with financial needs. He therefore started to work in a number of popularist sub-genres - detective fiction, ghost stories, fairy tales - a market opened up by recently reduced printing costs and used to great effect by the likes of Arthur Conan Doyle. But Wilde, evercontemptuous of writers who 'pandered to the masses', refused to produce straight genre-pieces. Though they conform to the character, plot and moral frameworks of the various sub-genres, their essence is often subverted, giving rise to witty, but often subtle and complex, parodies.

Sub questions

Question Number: 196 Question Id: 5105295408 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following is part of wilde's short fiction?

- travelogues
- science fiction



| | | * | 4 | |
|---|---|-------|-------|-----|
| - | 1 | Witty | comed | ies |
| 5 | ~ | | | |

| | | ~ |
|------|-----------|-----------|
| 4 32 | patriotic | e fervour |

Question Number: 197 Question Id: 5105295409 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Wilde received little recognition as an artist after his masterpiece

Options:

- 1 * The Happy Prince
- 2. Lady Windermere's Fan
- The Portrait of Mr. W.H
- 4. * The Selfish Giant

Question Number: 198 Question Id: 5105295410 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following is not a reason for wilde's short-lived success?

Options :

- 1. * An ill-advised attempt to sue for slander
- convicted on a morals charge
- living in a self-imposed exile in France
- 4. began to work on sub-genres

Question Number: 199 Question Id: 5105295411 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Why did Wilde refuse to produce straight genre-pieces?

- 1. * To take revenge on the society
- 2. To improve his financial needs
- 3. * To get married



4. * For self-introspection

Question Number : 200 Question Id : 5105295412 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is the meaning of the phrase 'pandered to the masses'

- To provide exactly what a person or group wants, especially when it is not acceptable
- 2. * To provide exactly what a person wants, especially when it is not acceptable
- To provide exactly what a group does not want, especially when it is not acceptable
- 4. * To provide exactly what a person or group wants, especially when it is acceptable

