

NDA 2 2024

LIVE

MATHS REVISION

CLASS 6

NAVJYOTI SIR

SSBCrack
EXAMS



12 August 2024 Live Classes Schedule

8:00AM

12 AUGUST 2024 DAILY CURRENT AFFAIRS

RUBY MA'AM

9:00AM

12 AUGUST 2024 DAILY DEFENCE UPDATES

DIVYANSHU SIR

SSB INTERVIEW LIVE CLASSES

9:00AM

OVERVIEW OF PIQ & PI

ANURADHA MA'AM

NDA 2 2024 LIVE CLASSES

11:00AM

GK - POLITY REVISION - CLASS 3

RUBY MA'AM

12:00PM

PHYSICS REVISION - CLASS 6

NAVJYOTI SIR

1:00PM

MATHS REVISION - CLASS 6

NAVJYOTI SIR

2:00PM

BIOLOGY REVISION - CLASS 6

SHIVANGI MA'AM

5:30PM

ENGLISH - MATCHING LIST - CLASS 2

ANURADHA MA'AM

CDS 2 2024 LIVE CLASSES

11:00AM

GK - POLITY REVISION - CLASS 2

RUBY MA'AM

12:00PM

PHYSICS REVISION - CLASS 5

NAVJYOTI SIR

2:00PM

BIOLOGY REVISION - CLASS 5

SHIVANGI MA'AM

3:00PM

MATHS REVISION - CLASS 5

NAVJYOTI SIR

5:30PM

ENGLISH - MATCHING LIST - CLASS 2

ANURADHA MA'AM



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REVISION TOPICS :

- **3D Geometry**
- **Permutations and Combinations**

Q) Consider the following statements:

1. Equations $ax + by + cz + d = 0$, $a'x + b'y + c'z + d' = 0$ represent a straight line.
2. Equation of the form

$$\frac{x - \alpha}{l} = \frac{y - \beta}{m} = \frac{z - \gamma}{n}$$

represent a straight line passing through the point (α, β, γ) and having direction ratio proportional to $\underline{l}, \underline{m}, \underline{n}$.

Which of the statements given above is/are correct ?

- | | |
|--|---------------------|
| (a) 1 only | (b) 2 only |
| <input checked="" type="checkbox"/> (c) Both 1 and 2 | (d) Neither 1 nor 2 |

Q Consider the following statements:

1. Equations $ax + by + cz + d = 0$, $a'x + b'y + c'z + d' = 0$ represent a straight line.
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Which of the statements given above is/are correct ?

- | | |
|------------------|---------------------|
| (a) 1 only | (b) 2 only |
| (c) Both 1 and 2 | (d) Neither 1 nor 2 |

Ans: (c)

Q) If the centre of the sphere

$$ax^2 + by^2 + cz^2 - 2x + 4y + 2z - 3 = 0 \text{ is } (\frac{1}{2}, -1, -\frac{1}{2}), \text{ what}$$

is the value of b ?

- (a) 1
(c) 2

- (b) -1
(d) -2

($\div 2$)

$$x^2 + y^2 + z^2 + 2ax + 2by + 2cz + c = 0$$

$(-a, -b, -c)$ \rightarrow coordinates of centre

from eqn \rightarrow $(1, -2, -1) \quad (\div 2) \quad (\frac{1}{2}, -1, -\frac{1}{2})$

Q) If the centre of the sphere

$ax^2 + by^2 + cz^2 - 2x + 4y + 2z - 3 = 0$ is $(1/2, -1, -1/2)$, what is the value of b ?

- (a) 1
- (b) -1
- (c) 2
- (d) -2

Ans: (c)

Q) What is the length of the perpendicular from the origin to

the plane $ax + by + \sqrt{2ab} z = 1$?

- (a) $1/(ab)$
- (b) $1/(a+b)$
- (c) $a+b$
- (d) ab

Distance of point $(0,0,0)$ from $ax + by + \sqrt{2ab} z - 1 = 0$

$$\frac{|a(0) + b(0) + \sqrt{2ab}(0) - 1|}{\sqrt{a^2 + b^2 + 2ab}} = \frac{|-1|}{\sqrt{(a+b)^2}} = \frac{1}{a+b}$$

Q) What is the length of the perpendicular from the origin to

the plane $ax + by + \sqrt{2ab} z = 1$?

- (a) $1/(ab)$
- (b) $1/(a + b)$
- (c) $a + b$
- (d) ab

Ans: (b)

Q) If O, P are the points $(0, 0, 0)$, $(2, 3, -1)$ respectively, then what is the equation to the plane through P at right angles to OP ?

- (a) $2x + 3y + z = 16$ (b) $2x + 3y - z = 14$
(c) $2x + 3y + z = 14$ (d) $2x + 3y - z = 0$

plane is passing through P, so it should satisfy plane's eqns from options,
 $(2, 3, -1)$

- (a) ✗ (c) ✗
(b) ✓ (d) ✗

Q) If O, P are the points $(0, 0, 0)$, $(2, 3, -1)$ respectively, then what is the equation to the plane through P at right angles to OP ?

- (a) $2x + 3y + z = 16$
- (b) $2x + 3y - z = 14$
- (c) $2x + 3y + z = 14$
- (d) $2x + 3y - z = 0$

Ans: (b)

Q) Under what condition do $\left\langle \frac{1}{\sqrt{2}}, \frac{1}{2}, K \right\rangle$ represent direction cosines of a line?

- (a) $k = \frac{1}{2}$
- (b) $k = -\frac{1}{2}$
- (c) $k = \pm \frac{1}{2}$
- (d) k can take any value

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- (c) $k = \pm \frac{1}{2}$
- (d) k can take any value

Ans: (c)

Q) A plane which passes through the point $(3, 2, 0)$ and the line

$$\frac{x-4}{1} = \frac{y-7}{5} = \frac{z-4}{4} \text{ is}$$

- | | |
|----------------------|----------------------|
| (a) $x - y + z = 1$ | (b) $x + y + z = 5$ |
| (c) $x + 2y - z = 1$ | (d) $2x - y + z = 5$ |

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| (a) $x - y + z = 1$ | (b) $x + y + z = 5$ |
| (c) $x + 2y - z = 1$ | (d) $2x - y + z = 5$ |

Ans: (a)

Q)The d.r. of normal to the plane through $(1, 0, 0), (0, 1, 0)$
which makes an angle $\pi/4$ with plane $x + y = 3$ are

- (a) $1, \sqrt{2}, 1$
- (b) $1, 1, \sqrt{2}$
- (c) $1, 1, 2$
- (d) $\sqrt{2}, 1, 1$

Q)The d.r. of normal to the plane through $(1, 0, 0), (0, 1, 0)$
which makes an angle $\pi/4$ with plane $x + y = 3$ are

- (a) $1, \sqrt{2}, 1$
- (b) $1, 1, \sqrt{2}$
- (c) $1, 1, 2$
- (d) $\sqrt{2}, 1, 1$

Ans: (b)

Q) The shortest distance from the plane $12x + 4y + 3z = 327$

to the sphere $x^2 + y^2 + z^2 + 4x - 2y - 6z = 155$ is

- (a) 39
- (b) 26
- (c) $11\frac{4}{13}$
- (d) 13

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to the sphere $x^2 + y^2 + z^2 + 4x - 2y - 6z = 155$ is

- (a) 39
- (b) 26
- (c) $11\frac{4}{13}$
- (d) 13

Ans: (d)

Q) The two lines $x = ay + b, z = cy + d$ and $x = a'y + b', z = c'y + d'$ will be perpendicular, if and only if

- (a) $aa' + cc' + 1 = 0$
- (b) $aa' + bb' + cc' + 1 = 0$
- (c) $aa' + bb' + cc' = 0$
- (d) $(a + a')(b + b') + (c + c') = 0.$

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- (b) $aa' + bb' + cc' + 1 = 0$
- (c) $aa' + bb' + cc' = 0$
- (d) $(a + a')(b + b') + (c + c') = 0.$

Ans: (a)

Q) The lines $\frac{x-2}{1} = \frac{y-3}{1} = \frac{z-4}{-k}$ and $\frac{x-1}{k} = \frac{y-4}{1} = \frac{z-5}{1}$ are coplanar if

- (a) $k = 3$ or -2
- (b) $k = 0$ or -1
- (c) $k = 1$ or -1
- (d) $k = 0$ or -3

Q) The lines $\frac{x-2}{1} = \frac{y-3}{1} = \frac{z-4}{-k}$ and $\frac{x-1}{k} = \frac{y-4}{1} = \frac{z-5}{1}$ are coplanar if

- (a) $k = 3$ or -2
- (b) $k = 0$ or -1
- (c) $k = 1$ or -1
- (d) $k = 0$ or -3

Ans: (d)

Q)The radius of the circle in which the sphere

$$x^2 + y^2 + z^2 + 2x - 2y - 4z - 19 = 0 \text{ is cut by the plane}$$

$$x + 2y + 2z + 7 = 0 \text{ is}$$

- (a) 4
- (b) 1
- (c) 2
- (d) 3

Q)The radius of the circle in which the sphere

$$x^2 + y^2 + z^2 + 2x - 2y - 4z - 19 = 0 \text{ is cut by the plane}$$

$$x + 2y + 2z + 7 = 0 \text{ is}$$

- (a) 4
- (b) 1
- (c) 2
- (d) 3

Ans: (d)

Q) Distance between two parallel planes

$2x + y + 2z = 8$ and $4x + 2y + 4z + 5 = 0$ is

- (a) $\frac{9}{2}$
- (b) $\frac{5}{2}$
- (c) $\frac{7}{2}$
- (d) $\frac{3}{2}$

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- (a) $\frac{9}{2}$
- (b) $\frac{5}{2}$
- (c) $\frac{7}{2}$
- (d) $\frac{3}{2}$

Ans: (c)

Q) The intersection of the spheres

$$x^2 + y^2 + z^2 + 7x - 2y - z = 13 \text{ and}$$

$$x^2 + y^2 + z^2 - 3x + 3y + 4z = 8$$

is the same as the intersection of one of the sphere and the plane

- (a) $2x - y - z = 1$
- (b) $x - 2y - z = 1$
- (c) $x - y - 2z = 1$
- (d) $x - y - z = 1$

Q) The intersection of the spheres

$$x^2 + y^2 + z^2 + 7x - 2y - z = 13 \text{ and}$$

$$x^2 + y^2 + z^2 - 3x + 3y + 4z = 8$$

is the same as the intersection of one of the sphere and the plane

- (a) $2x - y - z = 1$
- (b) $x - 2y - z = 1$
- (c) $x - y - 2z = 1$
- (d) $x - y - z = 1$

Ans: (a)

Q) If the angle θ between the line $\frac{x+1}{1} = \frac{y-1}{2} = \frac{z-2}{2}$ and

the plane $2x - y + \sqrt{\lambda}z + 4 = 0$ is such that

$\sin \theta = \frac{1}{3}$ then the value of λ is

- (a) $\frac{5}{3}$ (b) $\frac{-3}{5}$
(c) $\frac{3}{4}$ (d) $\frac{-4}{3}$

Q) If the angle θ between the line $\frac{x+1}{1} = \frac{y-1}{2} = \frac{z-2}{2}$ and

the plane $2x - y + \sqrt{\lambda} z + 4 = 0$ is such that

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- (a) $\frac{5}{3}$
- (b) $\frac{-3}{5}$
- (c) $\frac{3}{4}$
- (d) $\frac{-4}{3}$

Ans: (a)

Q) The angle between the lines $2x = 3y = -z$ and $6x = -y = -4z$ is

- (a) 0°
- (b) 90°
- (c) 45°
- (d) 30°

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- (a) 0°
- (b) 90°
- (c) 45°
- (d) 30°

Ans: (b)

Q) What is the equation of the sphere with unit radius having centre at the origin ?

- (a) $x^2 + y^2 + z^2 = 0$
- (b) $x^2 + y^2 + z^2 = 1$
- (c) $x^2 + y^2 + z^2 = 2$
- (d) $x^2 + y^2 + z^2 = 3$

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- (a) $x^2 + y^2 + z^2 = 0$
- (b) $x^2 + y^2 + z^2 = 1$
- (c) $x^2 + y^2 + z^2 = 2$
- (d) $x^2 + y^2 + z^2 = 3$

Ans: (b)

Q) What is the sum of the squares of direction cosines of x -axis?

- (a) 0
- (b) $\frac{1}{3}$
- (c) 1
- (d) 3

Q) What is the sum of the squares of direction cosines of x -axis?

- (a) 0
- (b) $\frac{1}{3}$
- (c) 1
- (d) 3

Ans: (c)

Q) What is the distance of the line $2x + y + 2z = 3$ from the origin ?

- (a) 1 units
- (b) 1.5 units
- (c) 2 units
- (d) 2.5 units

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- (a) 1 units
- (b) 1.5 units
- (c) 2 units
- (d) 2.5 units

Ans: (a)

Q) What is the angle between the lines $\frac{x-2}{1} = \frac{y+1}{-2} = \frac{z+2}{1}$

and $\frac{x-1}{1} = \frac{2y+3}{3} = \frac{z+5}{2}$?

- (a) $\frac{\pi}{2}$
- (b) $\frac{\pi}{3}$
- (c) $\frac{\pi}{6}$
- (d) None of the above

Q) What is the angle between the lines $\frac{x-2}{1} = \frac{y+1}{-2} = \frac{z+2}{1}$

and $\frac{x-1}{1} = \frac{2y+3}{3} = \frac{z+5}{2}$?

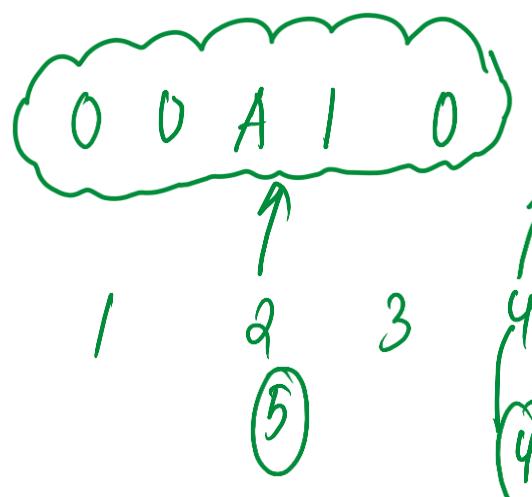
- (a) $\frac{\pi}{2}$
- (b) $\frac{\pi}{3}$
- (c) $\frac{\pi}{6}$
- (d) None of the above

Ans: (a)

PERMUTATIONS AND COMBINATIONS

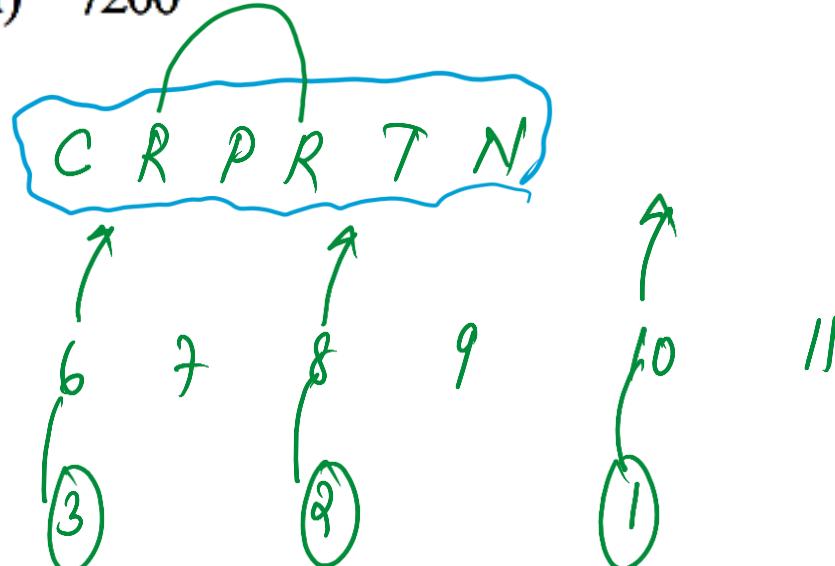
Q) In how many ways can the letters of the word CORPORATION be arranged so that vowels always occupy even places ?

- (a) 120
 (b) 2700
 (c) 720
 (d) 7200



- (b) 2700
 (d) 7200

11 places



$$\frac{5!}{3!} \times \frac{6!}{2!}$$

$$5 \times 4 \times (6 \times 5 \times 4 \times 3)$$

$$= 20 \times 30 \times 12$$

$$= \underline{\underline{7200}}$$

Q) In how many ways can the letters of the word CORPORATION be arranged so that vowels always occupy even places ?

- (a) 120
- (b) 2700
- (c) 720
- (d) 7200

Ans: (d)

Q) If all permutations of the letters of the word 'LAGAN' are arranged as in dictionary, then what is the rank of 'NAAGL'?

- (a) 48th word
- (b) 49th word
- (c) 50th word
- (d) 51st word

$$\textcircled{A} \overset{\text{M}}{\cancel{A G L N}} \rightarrow \frac{4!}{2!} = 24 \quad \left. \right\}$$

$$\textcircled{G} \overset{\text{A}}{\cancel{A A L N}} \rightarrow \frac{4!}{2!} = 12 \quad \left. \right\}$$

$$\textcircled{L} \overset{\text{A}}{\cancel{A A G N}} \rightarrow \frac{4!}{2!} = 12 \quad \left. \right\}$$

$$24 + 12 + 12 = \underline{\underline{48 \text{ words}}}$$

N A A G L \rightsquigarrow 49th word

Q) If all permutations of the letters of the word 'LAGAN' are arranged as in dictionary, then what is the rank of 'NAAGL'?

- (a) 48th word
- (b) 49th word
- (c) 50th word
- (d) 51st word

Ans: (b)

Q) What is $\frac{(n+2)! + (n+1)(n-1)!}{(n+1)(n-1)!}$ equal to ?

- (a) 1
- (b) Always an odd integer
- (c) A perfect square
- (d) None of the above

$$\frac{(n+2)(n+1)! + (n+1)(n-1)!}{(n+1)(n-1)!}$$

~~$$1 + \frac{(n+2)(n+1) n (n-1)!}{(n+1)(n-1)!}$$~~

$$1 + (n+2)(n)$$

$$= n^2 + 2n + 1$$

$$= (n+1)^2$$

perfect square

$$7! = 7 \times 6!$$

$$n! = n \times (n-1)!$$

Q) What is $\frac{(n+2)! + (n+1)(n-1)!}{(n+1)(n-1)!}$ equal to ?

- (a) 1
- (b) Always an odd integer
- (c) A perfect square
- (d) None of the above

Ans: (c)

Q) A group consists of 5 men and 5 women. If the number of different five-person committees containing k men and $(5-k)$ women is 100, what is the value of k ?

- (a) 2 only
- (b) 3 only
- (c) 2 or 3
- (d) 4

5 M

5 W

$$\left(\frac{5!}{(5-k)! k!} \right)^2 = 100$$

$${}^5C_k \times {}^5C_{5-k} = 100$$

$$\frac{5!}{(5-k)! k!} \times \frac{5!}{k! (5-k)!} = 100$$

$$\frac{5!}{(5-k)! k!} = 10$$

$${ }^5C_k = 10$$

$${}^nC_r = \frac{n!}{(n-r)! r!}$$

$${}^nC_r = {}^nC_{n-r}$$

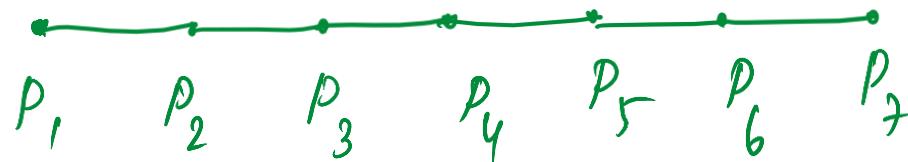
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- (a) 2 only
- (b) 3 only
- (c) 2 or 3
- (d) 4

Ans: (c)

Q) If 7 points out of 12 are in the same straight line, then what is the number of triangles formed ?

- (a) 84
- (b) 175
- (c) 185
- (d) 201



$$\begin{aligned}
 & \frac{\cancel{3 \times 4}}{\cancel{2}} + \frac{\cancel{7 \times 5 \times 4}}{\cancel{2}} + \frac{\cancel{7 \times 6}}{\cancel{2}} \times 5 \\
 & = 10 + 90 + (21 \times 5) \\
 & = 80 + 105 = \boxed{185} \checkmark
 \end{aligned}$$

$$\left\{ {}^5C_3 + {}^2C_1 \times {}^5C_2 + {}^2C_2 \times {}^5C_1 \right\}$$

Q)If 7 points out of 12 are in the same straight line, then what is the number of triangles formed ?

- (a) 84
- (b) 175
- (c) 185
- (d) 201

Ans: (c)

Q) How many different words can be formed by jumbling the letters in the word MISSISSIPPI in which no two S are adjacent?

- (a) $8 \cdot {}^6C_4 \cdot {}^7C_4$
- (b) $6 \cdot 7 \cdot {}^8C_4$
- (c) $6 \cdot 8 \cdot {}^7C_4$
- (d) $7 \cdot {}^6C_4 \cdot {}^8C_4$

Q) How many different words can be formed by jumbling the letters in the word MISSISSIPPI in which no two S are adjacent?

- (a) $8 \cdot {}^6C_4 \cdot {}^7C_4$
- (b) $6 \cdot 7 \cdot {}^8C_4$
- (c) $6 \cdot 8 \cdot {}^7C_4$.
- (d) $7 \cdot {}^6C_4 \cdot {}^8C_4$

Ans: (d)

Q) What is the total number of combination of n different things taken 1, 2, 3,, n at a time?

- (a) 2^{n+1}
- (b) 2^{2n+1}
- (c) 2^{n-1}
- (d) $2^n - 1$

Q) What is the total number of combination of n different things taken 1, 2, 3, ..., n at a time?

- (a) 2^{n+1}
- (b) 2^{2n+1}
- (c) 2^{n-1}
- (d) $2^n - 1$

Ans: (d)

Q) What is the value of n , if $P(15, n - 1) : P(16, n - 2) = 3 : 4$?

- (a) 10
- (b) 12
- (c) 14
- (d) 15

Q) What is the value of n , if $P(15, n - 1) : P(16, n - 2) = 3 : 4$?

- (a) 10
- (b) 12
- (c) 14
- (d) 15

Ans: (c)

- Q) If $a_n = n(n!)$, then what is $a_1 + a_2 + a_3 + \dots + a_{10}$ equal to?
- (a) $10! - 1$ (b) $11! + 1$
(c) $10! + 1$ (d) $11! - 1$

- Q) If $a_n = n(n!)$, then what is $a_1 + a_2 + a_3 + \dots + a_{10}$ equal to?
- (a) $10! - 1$ (b) $11! + 1$
(c) $10! + 1$ (d) $11! - 1$

Ans: (d)

Q) How many distinct matrices exist with all four entries taken from

$\{1, 2\}$?

- (a) 16 (b) 24
- (c) 32 (d) 48

- Q)** How many distinct matrices exist with all four entries taken from $\{1, 2\}$?
- (a) 16 (b) 24
(c) 32 (d) 48

Ans: (a)

Q) What is the number of three-digit odd numbers formed by using the digits 1, 2, 3, 4, 5, 6 if repetition of digits is allowed?

- (a) 60
- (b) 108
- (c) 120
- (d) 216

Q) What is the number of three-digit odd numbers formed by using the digits 1, 2, 3, 4, 5, 6 if repetition of digits is allowed?

- (a) 60
- (b) 108
- (c) 120
- (d) 216

Ans: (b)

Directions

Consider the letters of the word 'Krishna'.

Q) How many words can be formed the vowels are not separated?

- (a) 1250
- (b) 550
- (c) 1440
- (d) None of these

Q) How many words can be formed the vowels are not separated?

- (a) 1250
- (b) 550
- (c) 1440
- (d) None of these

Ans: (c)

Q) How many words can be formed the vowels may occupy only odd places?

- (a) 100 (b) 720
- (c) 700 (d) 4

Q) How many words can be formed the vowels may occupy only odd places?

- (a) 100 (b) 720
- (c) 700 (d) 4

Ans: (b)

Q) How many words can be formed begin with *s* and end in *k* ?

- (a) 150
- (b) 70
- (c) 200
- (d) 120

Q) How many words can be formed begin with *s* and end in *k* ?

- (a) 150
- (b) 70
- (c) 200
- (d) 120

Ans: (d)

Q)What is the number of different messages that can be represented by three 0's and two 1's?

- (a) 10
- (b) 9
- (c) 8
- (d) 7

Q)What is the number of different messages that can be represented by three 0's and two 1's?

- (a) 10
- (b) 9
- (c) 8
- (d) 7

Ans: (a)

Q) From 7 men and 4 women a committee of 6 is to be formed such that the committee contains at least two women. What is the number of ways to do this?

- (a) 210
- (b) 371
- (c) 462
- (d) 5544

Q) From 7 men and 4 women a committee of 6 is to be formed such that the committee contains at least two women. What is the number of ways to do this?

- (a) 210
- (b) 371
- (c) 462
- (d) 5544

Ans: (b)

Q) A polygon has 44 diagonals. The number of its sides is

- (a) 11
- (b) 10
- (c) 8
- (d) 7

Q)A polygon has 44 diagonals. The number of its sides is

- (a) 11
- (b) 10
- (c) 8
- (d) 7

Ans: (a)

- Q)**If the letters of the word SACHIN are arranged in all possible ways and these words are written out as in dictionary, then the word SACHIN appears at serial number
- (a) 601 (b) 600 (c) 603 (d) 602

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Ans: (a)

Q)A man has 7 friends. In how many ways he can invite one or more of them for a tea party?

- (a) 128
- (b) 256
- (c) 127
- (d) 130

Q)A man has 7 friends. In how many ways he can invite one or more of them for a tea party?

- (a) 128
- (b) 256
- (c) 127
- (d) 130

Ans: (c)

REVISION TOPICS : **(13/08/24)**

- **Binomial Theorem**
- **Sequences and Series**

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MATHS REVISION

CLASS 7

NAVJYOTI SIR

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EXAMS