



RANKER'S STUFF



SINGLE CORRECT QUESTION

Q.1 Let $P = \{\theta : \sin \theta - \cos \theta = \sqrt{2} \cos \theta\}$ and $Q = \{\theta : \sin \theta + \cos \theta = \sqrt{2} \sin \theta\}$ be two sets. Then

- (1) $P \subset Q$ and $Q - P \neq \phi$
- (2) $Q \not\subset P$
- (3) $P \not\subset Q$
- (4) $P = Q$

Q.2 The general solution of the equation $7 \cos^2 x + \sin x \cos x - 3 = 0$ is given by-

- (1) $n\pi + \frac{\pi}{2}$ ($n \in \mathbb{I}$)
- (2) $n\pi - \frac{\pi}{4}$ ($n \in \mathbb{I}$)
- (3) $n\pi + \tan^{-1} \frac{4}{3}$ ($n \in \mathbb{I}$)
- (4) $n\pi + \frac{3\pi}{4}$, $k\pi + \tan^{-1} \frac{4}{3}$ ($n, k \in \mathbb{I}$)

Q.3 The solution of

$$\frac{3\sin\theta - \sin 3\theta}{1 + \cos\theta} + \frac{3\cos\theta + \cos 3\theta}{1 - \sin\theta} = 4\sqrt{2} \cos\left(\theta + \frac{\pi}{4}\right) \text{ is}$$

- (1) $n\pi$
- (2) $n\pi + \frac{\pi}{12}$
- (3) $n\pi \pm \frac{\pi}{2}$
- (4) $2n\pi$

Q.4 Find the general solution of x,

$$\cos^2 2x + \cos^2 3x = 1$$

- (1) $(2k+1) \frac{\pi}{10}$, $k \in \mathbb{I}$
- (2) $(\pi k + 1) \frac{\pi}{10}$; $k \in \mathbb{I}$
- (3) $(2k-1) \frac{\pi}{10}$, $k \in \mathbb{I}$
- (4) Both (1) and (3)

Q.5 The set of values of x for which

$$\sin x \cdot \cos^3 x > \cos x \cdot \sin^3 x, 0 \leq x \leq 2\pi, \text{ is-}$$

- (1) $(0, \pi)$
- (2) $\left(0, \frac{\pi}{4}\right)$
- (3) $\left(\frac{\pi}{4}, \pi\right)$
- (4) None of these

Q.6 The number of solution of $\log_{\sin x} 2^{\tan x} > 0$ in the interval $\left(0, \frac{\pi}{2}\right)$ is -

- (1) 0
- (2) 1
- (3) 2
- (4) 3

Q.7 If $0 \leq x \leq 2\pi$, $0 \leq y \leq 2\pi$ and

$$\sin x + \sin y = 2 \text{ then, the value of } x + y \text{ is-}$$

- (1) π
- (2) $\frac{\pi}{2}$
- (3) 3π
- (4) None of these

TRIGONOMETRIC EQUATIONS

Q.8 If $x \in \left[-\frac{5\pi}{2}, \frac{5\pi}{2}\right]$, the greatest positive solution of $1 + \sin^4 x = \cos^2 3x$ is-

- (1) π (2) 2π
(3) $\frac{5\pi}{2}$ (4) None of these

Q.9 If α, β satisfy the equation $\cos x - \frac{\cot p \sin x}{2} = \frac{\sqrt{3}}{2}$ then the value of $\tan \frac{\alpha}{2} + \tan \frac{\beta}{2}$ is-

- (1) $\frac{\sqrt{3}-2}{\sqrt{3}+2}$ (2) $2(\sqrt{3}-2) \cot p$
(3) $2(2-\sqrt{3}) \cot p$ (4) None of these

Q.10 If $\cos x = \sqrt{1-\sin 2x}$, $0 < x < \pi$, then a value of x is-

- (1) $\tan^{-1} 2$ (2) 0
(3) π (4) None of these

Q.11 The most general solution of

$$2^{\sin x} + 2^{\cos x} = 2^{\frac{1}{\sqrt{2}}} \text{ is-}$$

- (1) $n\pi + \frac{\pi}{4}$ (2) $n\pi - \frac{\pi}{4}$
(3) $n\pi + (-1)^n \frac{\pi}{4}$ (4) $2n\pi + \frac{\pi}{4}$

Q.12 The number of values of x in $[0, 5\pi]$ satisfying the equation $3\cos 2x - 10\cos x + 7 = 0$ are-

- (1) 5 (2) 6 (3) 8 (4) 10

Q.13 Total number of solution of

$$16^{\cos^2 x} + 16^{\sin^2 x} = 10 \text{ in } x \in [0, 3\pi] \text{ is equal to-}$$

- (1) 4 (2) 8 (3) 12 (4) 16

Q.14 The equation $3^{\sin 2x + 2\cos^2 x} + 3^{1 - \sin 2x + 2\sin^2 x} = 28$ is satisfied for the values of x given by -

- (1) $\cos x = 0, \tan x = -1$
(2) $\tan x = 0$
(3) $\tan x = 1$
(4) None of these

Q.15 The solution of the equation

$$\log_2(\sin x + \cos x) - \log_2(\cos x) + 1 = 0 :$$

- (1) $\tan^{-1}\left(-\frac{1}{2}\right)$ (2) 0
(3) $\tan^{-1}\left(\frac{1}{2}\right)$ (4) None of these

Q.16

The most general values of x for which $\sqrt{3} \sin x - \cos x = \min_{\lambda \in \mathbb{R}} \{2, e^2, \pi, \lambda^2 - 4\lambda + 7\}$ are given by -

- (1) $2n\pi$ (2) $2n\pi + \frac{2\pi}{3}$
(3) $n\pi + (-1)^n \frac{\pi}{4} + \frac{\pi}{6}$ (4) $n\pi + (-1)^{n+1} \frac{\pi}{4} - \frac{\pi}{3}$

Q.17 The solution set of equation $\cos^5 x = 1 + \sin^4 x$ is-

- (1) $n\pi$ ($n \in \mathbb{I}$) (2) $2n\pi$ ($n \in \mathbb{I}$)
(3) $4n\pi$ ($n \in \mathbb{I}$) (4) None of these

Q.18 Number of solutions of the equation

$$2^{\sin^2 x} + 5 \cdot 2^{\cos^2 x} = 7 \text{ in the interval } [-\pi, \pi] \text{ is}$$

- (1) 4 (2) 2 (3) 6 (4) 0

Q.19 The number of ordered pairs (x, y) satisfying $y = 2 \sin x$ and $y = 5x^2 + 2x + 3$ is -

MATHEMATICS

(1) 0 (2) 1 (3) 2 (4) ∞

Q.20 If $0 \leq x \leq 3\pi$, $0 \leq y \leq 3\pi$ and $\cos x \cdot \sin y = 1$ then the possible number of values of the ordered pair (x, y) is -

(1) 6 (2) 12 (3) 8 (4) 15

Q.21 $3^{\log \tan x} + 3^{\log \cot x} = 2$ then x is -

(1) $n\pi + \frac{\pi}{2}$ (2) $(4n+1)\frac{\pi}{4}$

(3) $n\pi - \frac{\pi}{4}$ (4) $n\pi$

Q.22 The most general values of x for which $\sin x + \cos x = \min_{a \in \mathbb{R}} \{1, a^2 - 4a + 6\}$ are given by -

(1) $2n\pi$

(2) $2n\pi + \frac{\pi}{2}$

(3) $n\pi + (-1)^n \cdot \frac{\pi}{4} - \frac{\pi}{4}$

(4) None of these

Q.23 If $\frac{\sin^3 \theta - \cos^3 \theta}{\sin \theta - \cos \theta} - \frac{\cos \theta}{\sqrt{1 + \cot^2 \theta}} - 2 \tan \theta \cot \theta = -1$
 $\theta \in [0, 2\pi]$, then

(1) $\theta \in \left(0, \frac{\pi}{2}\right) - \left\{\frac{\pi}{4}\right\}$

(2) $\theta \in \left(\frac{\pi}{2}, \pi\right) - \left\{\frac{3\pi}{4}\right\}$

(3) $\theta \in \left(\pi, \frac{3\pi}{2}\right) - \left\{\frac{5\pi}{4}\right\}$

(4) $\theta \in (0, \pi) - \left\{\frac{\pi}{4}, \frac{\pi}{2}\right\}$

Q.24 The number of distinct solutions of $\sin 5\theta \cdot \cos 3\theta = \sin 9\theta \cdot \cos 7\theta$ in $\left[0, \frac{\pi}{2}\right]$ is-

(1) 4 (2) 5 (3) 8 (4) 9

Q.25 The equation $k \cos x - 3 \sin x = k + 1$ is solvable only if k belongs to the interval -

(1) $[4, +\infty)$

(2) $[-4, 4]$

(3) $(-\infty, 4]$

(4) None of these

Q.26 The values of $x \in [-2\pi, 2\pi]$ such that $\frac{\sin x + i \cos x}{1+i}$, $i = \sqrt{-1}$, is purely imaginary, are given by -

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

(2) $n\pi + \frac{\pi}{4}$

(3) $n\pi$

(4) None of these

Q.27 If $\log_{\cos x} \sin x \geq 2$ and $0 \leq x \leq 3\pi$, then $\sin x$ is in the interval

(1) $\left[\frac{\sqrt{5}-1}{2}, 1\right]$

(2) $\left[0, \frac{\sqrt{5}-1}{2}\right]$

(3) $\left[0, \frac{1}{2}\right]$

(4) None of these

Q.28 Number of ordered pairs (a, x) satisfying the equation $\sec^2(a+2)x + a^2 - 1 = 0$; $-\pi < x < \pi$ is-

(1) 2

(2) 1

(3) 3

(4) Infinite

Q.29 If $\max_{\theta \in \mathbb{R}} \{5 \sin \theta + 3 \sin(\theta - \alpha)\} = 7$ then the set of possible values of α is

(1) $\left\{x \mid x = 2n\pi \pm \frac{\pi}{3}; n \in \mathbb{I}\right\}$

(2) $\left\{x \mid x = 2n\pi \pm \frac{2\pi}{3}; n \in \mathbb{I}\right\}$

(3) $\left[\frac{\pi}{3}, \frac{2\pi}{3}\right]$

(4) None of these

TRIGONOMETRIC EQUATIONS

Q.30 The general solution of the equation

$$\sin^{50}x - \cos^{50}x = 1 \text{ is-}$$

(1) $2n\pi + \frac{\pi}{2}$ (2) $2n\pi + \frac{\pi}{3}$

(3) $n\pi + \frac{\pi}{2}$ (4) $n\pi + \frac{\pi}{3}$

Q.31 The number of values of x in the interval $[0, 5\pi]$ satisfying the equation $3 \sin^2x - 7 \sin x + 2 = 0$ is

(1) 0 (2) 5 (3) 6 (4) 10

Q.32 For any real value of $\theta \neq \pi$, the value of the expression $y = \frac{\cos^2\theta - 1}{\cos^2\theta + \cos\theta}$ is-

(1) $1 \leq y \leq 2$ (2) $y < 0$ and $y > 2$
(3) $-1 \leq y \leq 1$ (4) $y \geq 1$

Q.33 The number of solutions of the pair of equations $2\sin^2\theta - \cos 2\theta = 0$ and $2\cos^2\theta - 3 \sin\theta = 0$ in the interval $[0, 2\pi]$ is -

(1) zero (2) one (3) two (4) four

Q.34 Total number of integral values of 'n' so that $\sin x (\sin x + \cos x) = n$ has at least one solution is-

(1) 2 (2) 1 (3) 3 (4) Zero

Q.35 If $1 + \sin x + \sin^2x + \sin^3x + \dots \infty$ is equal to $4 + 2\sqrt{3}$, $0 < x < \pi$, then x is equal to :

(1) $\frac{\pi}{6}$ (2) $\frac{\pi}{4}$
(3) $\frac{\pi}{3}$ or $\frac{\pi}{6}$ (4) $\frac{\pi}{3}$ or $\frac{2\pi}{3}$

Q.36 If $r > 0$, $-\pi \leq \theta \leq \pi$ and r, θ satisfy $r \sin\theta = 3$ and $r = 4(1 + \sin\theta)$, then the number of possible solutions of the pair (r, θ) is-

(1) 2 (2) 4 (3) 0 (4) Infinite

Q.37 Find the number of roots of the equation $\tan x + \sec x = 2 \cos x$ in the interval $[0, 2\pi]$ -

(1) 1 (2) 2 (3) 3 (4) 4

Q.38 In a triangle ABC, angle A is greater than angle B. If the measure of angles A and B satisfy the equation $3 \sin x - 4 \sin^3x - k = 0$, $0 < k < 1$, then the measure of angle C is-

(1) $\frac{\pi}{3}$ (2) $\frac{\pi}{2}$ (3) $\frac{2\pi}{3}$ (4) $\frac{5\pi}{6}$

Q.39 The general solution of

$$\sin x - 3\sin 2x + \sin 3x = \cos x - 3 \cos 2x + \cos 3x \text{ is-}$$

(1) $n\pi + \frac{\pi}{8}$ (2) $\frac{n\pi}{2} + \frac{\pi}{8}$
(3) $(-1)^n \frac{n\pi}{2} + \frac{\pi}{8}$ (4) $2n\pi + \cos^{-1} \frac{3}{2}$

Q.40 The number of values of x in the interval $[0, 3\pi]$ satisfying the equation $2 \sin^2x + 5 \sin x - 3 = 0$ is -

(1) 6 (2) 1 (3) 2 (4) 4

Q.41 The number of solutions of the equation

$$\sin(e)^x = 5^x + 5^{-x} \text{ is:}$$

(1) 0 (2) 1
(3) 2 (4) Infinitely many

Q.42 The possible values of $\theta \in (0, \pi)$ such that $\sin(\theta) + \sin(4\theta) + \sin(7\theta) = 0$ are -

(1) $\frac{\pi}{4}, \frac{5\pi}{12}, \frac{\pi}{2}, \frac{2\pi}{3}, \frac{3\pi}{4}, \frac{8\pi}{9}$
(2) $\frac{2\pi}{9}, \frac{\pi}{4}, \frac{\pi}{2}, \frac{2\pi}{3}, \frac{3\pi}{4}, \frac{35\pi}{36}$

$$(3) \frac{2\pi}{9}, \frac{\pi}{4}, \frac{\pi}{2}, \frac{2\pi}{3}, \frac{3\pi}{4}, \frac{8\pi}{9}$$

$$(4) \frac{2\pi}{9}, \frac{\pi}{4}, \frac{4\pi}{9}, \frac{\pi}{2}, \frac{3\pi}{4}, \frac{8\pi}{9}$$

NUMERICAL VALUE TYPE QUESTIONS

Q.43 Number of solutions of $5 \cos^2 \theta - 3 \sin^2 \theta + 6 \sin \theta \cos \theta = 7$ in the interval $[0, 2\pi]$ is _____.

Q.44 Number of solutions of the equation $\tan x + \sec x = 2 \cos x$ lying in the interval $[0, 2\pi]$ is _____.

Q.45 The number of solutions of $\cos \theta + \sqrt{3} \sin \theta = 5$, $0 \leq \theta \leq 5\pi$ is _____.

Q.46 If $\cos^6 x + \sin^6 x + k \sin^2 2x = 1 \quad \forall x \in \left(0, \frac{\pi}{2}\right)$ then $k = \frac{\lambda}{4}$ what is λ _____.

Q.47 The number of values of x between 0 to 2π which satisfy $e^x \cot x = 1$ is _____.

Q.48 $(1 - \cot 1^\circ)(1 - \cot 2^\circ)(1 - \cot 3^\circ) \dots (1 - \cot 44^\circ) = 2^n$, then $n = 10k + k$. What is k _____.

Q.49 The number of solutions in $0 \leq x \leq \frac{\pi}{2}$ of the equation $\cos 3x \tan 5x = \sin 7x$ is _____.

Q.50 The number of integral values of λ for which the equation $7 \cos x + 5 \sin x = 2\lambda + 1$ has a solution is _____.

Q.51 If equation $\cot^4 x - 2 \operatorname{cosec}^2 x + a^2 = 0$ has at least one solution then, sum of all possible integral values of a is _____.

Q.52 If the sum of all values of x satisfying the system of equations

$\tan x + \tan y + \tan x \cdot \tan y = 5$ $\sin(x + y) = 4 \cos x \cdot \cos y$ is $\frac{k\pi}{2}$, where $x \in \left(0, \frac{\pi}{2}\right)$, then find the values of k .

Q.53 Let k be sum of all x in the interval $[0, 2\pi]$ such that $3 \cot^2 x + 8 \cot x + 3 = 0$, then the value of $\frac{k}{\pi}$ is _____.

Q.54 Number of integral value(s) of m for which the equation $\sin x - \sqrt{3} \cos x = \frac{4m-6}{4-m}$ has solution, $x \in [0, 2\pi]$, is _____.

STATEMENT TYPE QUESTIONS

Each of the questions given below consist of Statement -I and Statement- II. Use the following key to choose the appropriate answer.

- (A) Both Statement-I and Statement-II are true, and Statement-II is the correct explanation of Statement-I.
- (B) Both Statement-I and Statement-II are true but Statement-II is not the correct explanation of Statement-I.
- (C) Statement-I is true but Statement-II is false.
- (D) Statement-I is false but Statement-II is true.

Q.55 Statement I : If $\sec x + \cos x = 2$ then $(\sec x)^n + (\cos x)^n = 2$.

Statement II : If $A + B = 2$ and $AB = 1$, then $A = B = 1$.

- (1) A (2) B (3) C (4) D

Q.56 Statement I : General solution of

$$\frac{\tan 4x - \tan 2x}{1 + \tan 4x \cdot \tan 2x} = 1 \text{ is } x = \frac{n\pi}{2} + \frac{\pi}{8}, n \in \mathbb{I}$$

TRIGONOMETRIC EQUATIONS

Statement II : General solution of $\tan \alpha = 1$ is

$$\alpha = n\pi + \frac{\pi}{4}, n \in \mathbb{I}$$

- (1) A (2) B (3) C (4) D

Q.57 Statement I : In $(0, \pi)$, the number of solutions of the equation

$$\tan \theta + \tan 2\theta + \tan 3\theta = \tan \theta \tan 2\theta \tan 3\theta \text{ is } 2.$$

Statement II : Each solution of $\tan 6\theta = 0$ is a solution of

$$\tan \theta + \tan 2\theta + \tan 3\theta = \tan \theta \tan 2\theta \tan 3\theta$$

- (1) A (2) B (3) C (4) D

Q.58 Statement I : The set of all x in $(-\pi, \pi)$ satisfying

$$|4 \sin x - 1| < \sqrt{5} \text{ is given by } \left(-\frac{\pi}{10}, \frac{3\pi}{10}\right).$$

Statement II : We know if $|x| < 1$, then $-1 < x < 1$.

- (1) A (2) B (3) C (4) D

Q.59 Statement I : The number of solutions of the equation $\tan^2 x - \sec^{10} x + 1 = 0$ in $(0, 10)$ is 3.

Statement II : $\sec^2 x = 1$ at $x = n\pi$ where $n \in \mathbb{I}$.

- (1) A (2) B (3) C (4) D

MORE THAN ONE CORRECT TYPE QUESTIONS

Q.60 The equation $\sin^6 x + \cos^6 x = a^2$ has real solution if

- (1) $a \in [-1, 1]$ (2) $a \in \left[-1, \frac{-1}{2}\right]$
 (3) $a \in \left[\frac{-1}{2}, \frac{1}{2}\right]$ (4) $a \in \left[\frac{1}{2}, 1\right]$

Q.61 For a given value of k the number of different solutions of the equation

$$3 \cos \theta + 4 \sin \theta = k \text{ in the range } 0^\circ \leq \theta \leq 360^\circ \text{ is-}$$

- (1) zero if $|k| > 5$ (2) two if $|k| < 5$
 (3) one if $|k| = 5$ (4) no solution for any k

Q.62 Let $f(x) = e^{\cos^{-1} \sin\left(x + \frac{\pi}{3}\right)}$, then-

- (1) $f\left(\frac{8\pi}{9}\right) = e^{\frac{5\pi}{18}}$ (2) $f\left(\frac{8\pi}{9}\right) = e^{\frac{13\pi}{18}}$
 (3) $f\left(-\frac{7\pi}{9}\right) = e^{\frac{\pi}{12}}$ (4) $f\left(-\frac{7\pi}{9}\right) = e^{\frac{11\pi}{12}}$

Q.63 If $\sin x + 7 \cos x = 5$, then $\cos(x - \phi) = \frac{1}{\sqrt{2}}$ if-

- (1) $\cos \phi = \frac{7}{\sqrt{50}}$ (2) $\sin \phi = \frac{1}{\sqrt{50}}$
 (3) $\cos \phi = \frac{1}{7}$ (4) $\sin \phi = \frac{5}{7}$

Q.64 $4 \sin^4 x + \cos^4 x = 1$ if

- (1) $x = n\pi$; ($n \in \mathbb{I}$)
 (2) $x = n\pi \pm \frac{1}{2} \cos^{-1}\left(\frac{1}{5}\right)$; ($n \in \mathbb{I}$)
 (3) $x = \frac{n\pi}{2}$; ($n \in \mathbb{I}$)
 (4) $x = -n\pi$; ($n \in \mathbb{I}$)

COMPREHENSION TYPE QUESTIONS

Q.65 Let p be the product of the sines of the angles of a triangle ABC and q is the product of the cosines of the angles.

(i) In this triangle, $\tan A + \tan B + \tan C$ is equal to

- (1) $p + q$ (2) $p - q$
 (3) $\frac{p}{q}$ (4) none of these

(ii) $\tan A \tan B + \tan B \tan C + \tan C \tan A$ is equal to

- (1) $1 + q$ (2) $\frac{1+q}{q}$ (3) $1 + p$ (4) $\frac{1+p}{p}$

(iii) The value of $\tan^3 A + \tan^3 B + \tan^3 C$ is

MATHEMATICS

$$(1) \frac{p^3 - 3pq^2}{q^3}$$

$$(2) \frac{q^3}{p^3}$$

$$(3) \frac{p^3}{q^3}$$

$$(4) \frac{p^3 - 3pq}{q^3}$$

Q.66 If $P_n = \sin^n \theta + \cos^n \theta$ where $n \in \mathbb{N}$ then answer the following

(i) If $P_1 = m$, then value of $4(1 - P_6)$ is

$$(1) 3(m - 1)^2$$

$$(2) 3(m^2 - 1)^2$$

$$(3) 3(m^2 + 1)^2$$

$$(4) \text{none}$$

(ii) Value of $2P_6 - 3P_4 + 10$ is-

$$(1) 0$$

$$(2) 6$$

$$(3) 9$$

$$(4) \text{none}$$

(iii) If $P_{n-2} - P_n = \sin^2 \theta \cos^2 \theta P_\lambda$, then value of λ is

$$(1) n - 1$$

$$(2) n - 2$$

$$(3) n - 3$$

$$(4) \text{none}$$

MATCH THE COLUMN TYPE QUESTIONS

Q.67 Match the column-

Column-I	Column-II
(A) The equation $\cos 2x + a \sin x = 2a - 7$ posses a solution if a belongs to the interval	(P) $[1, \infty)$
(B) The equation $7 \cos x + 5 \sin x = 2k + 1$ has a solution if k belongs to the interval	(Q) $[2, 6]$
(C) If $\cos^4 x + a \cos^2 x + 1 = 0$ has at least one solution then a belongs to the interval	(R) $(-\infty, -2]$
(D) If the equation $ \sin 2x - x - a = 0$ does not have any real solution then a belongs to the Interval	(S) $[-4, 3]$
	(T) $(0, \infty)$

Q.68 Match the column :

Column -I	Column-II
(A) Number of solutions of the equation $\sin x = -\frac{1}{6}$ in the interval $[-7\pi, 5\pi]$ is	(P) 1
(B) $(\cos n\pi)^{12}$, $n \in \mathbb{I}$ is equal to	(Q) 12
(C) If the equation $\sec^2 \theta = -x^2 + 14x - 23$ is possible, then the greatest integral value of x, is	(R) 0
(D) Solution(s) of the equation $6.9^{1/x} - 13.6^{1/x} + 6.4^{1/x} = 0$ is	(S) -1 (T) 4



ANSWER KEY

PRACTICE SECTION-01

Que.	1	2	3	4	5	6	7	8
Ans.	1	2	3	2	1	2	1	3

PRACTICE SECTION-02

Que.	1	2	3	4	5	6	7	8	9	10	11	12
Ans.	3	1	1	2	2	2	4	1	1	2	1	2

TOPIC WISE QUESTIONS

Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	2	1	3	2	3	1	3	4	1	1	2	3	3	1	4
Que.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	2	2	3	2	1	2	4	1	3	3	4	2	2	4	1
Que.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	3	3	3	3	4	1	3	1	4	3	4	1	1	3	4
Que.	46	47	48	49	50	51									
Ans.	3	1	1	3	4	4									

RANKER'S STUFF

Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	4	4	4	1	2	1	1	2	2	1	1	3	3	1	1
Que.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	2	2	2	1	1	2	3	4	4	3	1	2	3	1	3
Que.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	3	2	3	1	4	1	3	3	2	4	1	4	0	2	0
Que.	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Ans.	3	2	2	6	8	0	1	5	4	1	4	3	1	1	2,4
Que.	61	62	63	64	65(i)	65(ii)	65(iii)	66(i)	66(ii)	66(iii)					
Ans.	1,2,3	2,3	1,2	1,2,4	3	2	4	2	3	4					

Q.67 $A \rightarrow Q, B \rightarrow S, C \rightarrow R, D \rightarrow P, Q$

Q.68 $A \rightarrow Q, B \rightarrow P, C \rightarrow Q, D \rightarrow P, S$

JEE-FLASHBACK JEE MAINS QUESTIONS

Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	3	4	4	3	4	4	2	3	3	1	4	2	8	2	4
Que.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	4	1	11	1	2	3	4	1	56	1	3	3	3	5	16
Que.	31	32													
Ans.	1	4													

JEE ADVANCED QUESTIONS

Que.	1	2	3	4	5	6	7	8	9	10	11	12	13
Ans.	2	4	3	3,4	3	1,3,4	4	8	3	0.5	4	3	2