SUPER 60

JEE MAINS: APRIL 2019 SPECIAL

Target 75+ in Maths

COMPLEX NUMBERS

Ques No.	Question
1 - 7153	If w is a non real cube root of unity, then minimum value of $\left\|a+bw+cw^2\right\|$is (If a,b,c are not equal): (A) 0 (B) $\frac{\sqrt{3}}{2}$ (C) 1 (D) 2 Watch Free Video Solution on Doubtnut
2 - 7506	If $k>0$, $\|z\|=w=k$, and $\alpha=\frac{z-\overline{w}}{k^2+z\overline{w}}$, then $Re(\alpha)$ (A) 0 (B) $\frac{k}{2}$ (C) k (D) None of these Watch Free Video Solution on Doubtnut
3 - 8716	If $z^7+1=0$ then $\cos\left(\frac{\pi}{7}\right)\cos\left(\frac{3\pi}{7}\right)\cos\left(\frac{5\pi}{7}\right)$ is (A) $\frac{1}{8}$ (B) $-\frac{1}{8}$ (C) $\frac{1}{2\sqrt{2}}$ (D) $\frac{1}{2}$ Watch Free Video Solution on Doubtnut
4 - 8788	$f(n)=\cot^2\left(\frac{\pi}{n}\right)+\cot^2\frac{2\pi}{n}+.....+\cot^2\frac{(n-1)\pi}{n}$, $(n>1, n\in N)$ then $\lim_{n\to\infty}\frac{f(n)}{n^2}$ is equal to (A) $\frac{1}{2}$ (B) $\frac{1}{3}$ (C) $\frac{2}{3}$ (D) 1

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5 - 10008	If z_1 and $\bar{z}_1$ represent adjacent vertices of a regular polygon of n sides where centre is origin and if $\frac{Im(z)}{Re(z)} = \sqrt{2} - 1$, then n is equal to: (A) 8 (B) 16 (C) 24 (D) 32 Watch Free Video Solution on Doubtnut
6 - 12289	Area of triangle formed by the vertices $z, \omega z$ and $z + \omega z$ is $\frac{4}{\sqrt{3}}$, ω is complex cube roots of unity then $\lvert z \rvert$ is (A) 1 (B) $\frac{4}{3}$ (C) $\frac{3}{4}$ (D) $\frac{4}{\sqrt{3}}$ Watch Free Video Solution on Doubtnut
7 - 12306	In Argand diagram all the complex numbers z satisfying $\lvert z - 4i \rvert + \lvert z + 4i \rvert = 10$ lie on a (A) straight line (B) circle (C) ellipse (D) parabola Watch Free Video Solution on Doubtnut
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8 - 12316

If z_1, and z_2, are purely real then $z_1, z_2, \overline{z_1}, \overline{z_2}$ form (A) Parallelogram (B) square (C) rhombus (D) straight line

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9 - 12318

If ω is a complex cube root of unity, then the value of the expression

$$1(2-\omega)(2-\omega^2)+2(3-\omega)(3-\omega^2)+\ldots$$
$$+(n-1)(n-\omega)(n-\omega^2)(n\geq 2)$$

is equal to (A) $\frac{n^2(n+1)^2}{4}-n$ (B) $\frac{n^2(n+1)^2}{4}+n$ (C) $\frac{n^2(n+1)}{4}-n$ (D) $\frac{n(n+1)^2}{4}-n$

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10 - 12561

If $z=2-i\sqrt{3}$ then $z^4-4z^2+8z+35$ is (A) 6 (B) 0 (C) 1 (D) 2

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11 - 13826	The number of solutions of equation $\|z\|^2-(3+i)z-(3-i)\bar{z}-6=0$ is (A) 0 (B) 1 (C) 2 (D) ∞ Watch Free Video Solution on Doubtnut
12 - 28723	If ω is a cube root of unity and $(\omega-1)^7=A+B\omega$ then find the values of A' and B' (A) 0,1 (B) 1,1 (C) 1,0 (D) -1,1 Watch Free Video Solution on Doubtnut
13 - 28744	The smallest positive integer n for which $\left(\frac{1+i}{1-i}\right)^n=i$ is (A) 8 (B) 16 (C) 12 (D) None of these Watch Free Video Solution on Doubtnut
14 - 29013	If $x=\omega-\omega^2-2$ then , the value of $x^4+3x^3+2x^2-11x-6$ is (where ω is a imaginary cube root of unity) (A) 1 (B) $\omega-1$ (C) ω^2 (D) ω Watch Free Video Solution on Doubtnut
15 - 29177	If $x^2+x+1=0$ then the value of $\left(x+\frac{1}{x}\right)^2+\left(x^2+\frac{1}{x^2}\right)^2+...+\left(x^{27}+\frac{1}{x^{27}}\right)^2$ is (A) 27

(B) 72 (C) 45 (D) 54

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16 - 37026

$\left(\frac{4i^3 - i}{2i + 1}\right)^2$ can be expressed in $a + ib$ as (A) $3 + 4i$ (B) $3 - 4i$ (C) $4 + 3i$ (D) $4 - 3i$

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17 - 42400

If complex number $\frac{3 + 2i \sin x}{1 - 2i \sin x}$ is purely imaginary then $x =$ (A) $n\pi \pm \frac{\pi}{6}$ (B) $np \pm \frac{\pi}{3}$ (C) $2n\pi \pm \frac{\pi}{3}$ (D) $2n\pi \pm \frac{\pi}{6}$

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18 - 43936

The image of a complex number z in the imaginary axis is (A) z (B) iz (C) $-z$ (D) $-iz$

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19 - 44151	The common roots of the equation $z^3+2z^2+2z+1=0$ and $z^{1985}+z^{100}+1=0$ are: (A) $1, \omega$ (B) $1, \omega^2$ (C) ω, ω^2 (D) none of these Watch Free Video Solution on Doubtnut
20 - 45081	$[3(\cos 40+i\sin 40)]\cdot[4(\cos 80+i\sin 80)]=$ (A) $-1+\sqrt{3}i$ (B) $4\left[-1+\sqrt{3}i\right]$ (C) $2\left[-1+\sqrt{3}i\right]$ (D) $6\left[-1+\sqrt{3}i\right]$ Watch Free Video Solution on Doubtnut
21 - 45191	If $\left\|Z-\frac{4}{Z}\right\|=2$, then maximum value of |z| is (A) $\sqrt{5}$ (B) $\sqrt{5}+1$ (C) $\sqrt{5}-1$ (D) $1-\sqrt{5}$ Watch Free Video Solution on Doubtnut
22 - 45969	If $z=\cos\theta+i\sin\theta$, then the value of $\frac{z^{2n}-1}{z^{2n}+1}$ (A) $i\tan n\theta$ (B) $\tan n\theta$ (C) $i\cot n\theta$ (D) $-i\tan n\theta$ Watch Free Video Solution on Doubtnut
23 - 51022	If z_1, z_2, z_3 are 3 distinct complex numbers such that $\frac{3}{\|z_2-z_3\|}-\frac{4}{\|z_3-z_1\|}=\frac{5}{\|z_1-z_2\|}$ then the value of

$$\frac{9}{z_2 - z_3} + \frac{16}{z_3 - z_1} + \frac{25}{z_1 - z_2}$$ equals (A) 0 (B) $\sqrt{5}$ (C) 5 (D) 25

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24 - 51652

The value of $\sum_{n=1}^{13} \left(i^n + i^{n+1}\right)$, where $i = \sqrt{-1}$ equals (A) i (B) $i - 1$ (C) $-i$ (D) 0

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25 - 57111

If $\sum \cos A = \sum \sin A = 0$ then find the value of $x^{\sin(2A-B-C)} x^{\sin(2B-C-A)} x^{\sin(2C-A-B)}$ is (A) 1 (B) 0 (C) 3 (D) -3

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26 - 57650

If $z^4 + 1 = \sqrt{3}i$ (A) z^3 is purely real (B) z represents the vertices of a square of side $2^{\frac{1}{4}}$ (C) z^9 is purely imaginary (D) z represents

	the vertices of a square of side $2^{\frac{3}{4}}$ Watch Free Video Solution on Doubtnut
27 - 58763	Let z_1 and z_2 be complex numbers such that $z_1 \neq z_2$ and $\|z_1\| = \|z_2\|$ If z_1 has positive real part and z_2 has negative imaginary part then $\frac{z_1 + z_2}{z_1 - z_2}$ may be (A) zero (B) real and positive (C) real and negative (D) purely imaginary Watch Free Video Solution on Doubtnut
28 - 59908	If $\|z\| = 1$ and $w = \frac{z-1}{z+1}$ (where $z \neq -1$) then $Re(w)$ is (A) 0 (B) $-\frac{1}{\|z+1\|^2}$ (C) $\left\|\frac{z}{z+1}\right\| \frac{1}{\|z+1\|^2}$ (D) $\frac{\sqrt{2}}{\|z+1\|^2}$ Watch Free Video Solution on Doubtnut
29 - 66968	If $\|z_1\| = 2, \|z_2\| = 3, \|z_3\| = 4$ and $\|2z_1 + 3z_2 + 4z_3\| = 4$ then the expression $\|8z_2z_3 + 27z_3z_1 + 64z_1z_2\|$ equals (A) 72 (B) 24 (C) 96 (D) 92 Watch Free Video Solution on Doubtnut
30 - 69173	

The complex number z having least positive argument which satisfy the condition $|z-25i| \leq 15$ is (A) $25i$ (B) $12+5i$ (C) $16+12i$ (D) $12+16i$

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31 - 71010

If $\frac{1-ix}{1+ix}=a-ib$ and $a^2+b^2=1$, where $a, b \in R$ and $i=\sqrt{-1}$, then x is equal to (A) $\frac{2a}{(1+a)^2+b^2}$ (B) $\frac{2b}{(1+a)^2+b^2}$ (C) $\frac{2a}{(1+b)^2+a^2}$ (D) $\frac{2b}{(1+b)^2+a^2}$

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32 - 76525

What is the value of $z^2+(\bar{z})^2+2|z|^2$, if $z=3+2i$? (A) 36 (B) 81+12i (C) 39 (D) 40+12i

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33 - 79819	If $(a+ib)^5+\alpha+i\beta$ then $(b+ia)^5$ is equal to (A) $\beta-i\alpha$ (B) $\beta+i\alpha$ (C) $\alpha-i\beta$ (D) $-\alpha-i\beta$ Watch Free Video Solution on Doubtnut
34 - 80219	If $\|z\|=3$ then $\left(\frac{9+z}{1+\bar{z}}\right)$ equals (A) z (B) $\bar{z}$ (C) $3z$ (D) $z+\bar{z}$ Watch Free Video Solution on Doubtnut
35 - 84422	If $\frac{5z_2}{7z_1}$ is purely imaginary, then $\left\|\frac{2z_1+3z_2}{2z_1-3z_2}\right\|=$ (A) $\frac{5}{7}$ (B) $\frac{7}{9}$ (C) $\frac{25}{49}$ (D) 1 Watch Free Video Solution on Doubtnut
36 - 85446	If $\omega\neq 1$ is a cube root ofunity satisfying $\frac{1}{a+w}+\frac{1}{b+w}+\frac{1}{c+w}=2w^2$ and $\frac{1}{a+w^2}+\frac{1}{b+w^2}+\frac{1}{c+w^2}=2w$ then the value of $\frac{1}{a+1}+\frac{1}{b+1}+\frac{1}{c+1}$ is (A) 2 (B) -2 (C) ω^2 (D) ω Watch Free Video Solution on Doubtnut
37 - 89949	If $x+\frac{1}{x}=1$ then $x^{20}+x^{30}+x^{40}=$ (A) 6 (B) 5 (C) 0 (D) 2 Watch Free Video Solution on Doubtnut

38 - 111696

Let A, B, C be three sets of complex number as defined below:

$A = \{z: Im > 1\}, B = \{z: |z-2| = 3\}, C$
$: \{z: Re((1-i)z) = \sqrt{2}\}$

The number of elements in the set $A \cap B \cap C$ is (A) 0 (B) 1 (C) 2

(D) ∞

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39 - 202970

If A and B be two complex numbers such that

$|1-A'B|^2 - |A-B|^2 = K\left(1-|A|^2\right)\left(1-|B|^2\right)$ then the value of k is (A) 1 (B) 2 (C) $\frac{1}{2}$ (D) $\frac{1}{3}$

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40 - 246596

	If $\left(\frac{z^2}{z-1}\right)$ is purely real, then locus of z is (A) real axis (B) imaginary axis (C) circle (D) real axis or circle Watch Free Video Solution on Doubtnut
41 - 361934	If $x = 2 + 5i$(where $i^2 = -1$) and $2\left(\frac{1}{1!9!} + \frac{1}{3!7!}\right) + \frac{1}{5!5!} = \frac{2^a}{b!}$ then the value of $x^3 - 5x^2 + 33x - 19$ is equal to (A) 4 (B) 6 (C) 8 (D) 10 Watch Free Video Solution on Doubtnut
42 - 386925	If $1 + x^2 = \sqrt{3}x$,then $\sum_{n=1}^{24}\left(x^n - \frac{1}{x^n}\right)$ is equal to (A) 48 (B) -48 (C) $\pm 48\left(\omega - \omega^2\right)$ (D) none of these Watch Free Video Solution on Doubtnut
43 - 1171481	The number solutions of the equation $\lvert z\rvert^2 + 4\bar{z} = 0$ (A) 2 (B) 4 (C) 6 (D) 3 Watch Free Video Solution on Doubtnut
44 - 1228115	If $z_k = \cos\left(\frac{k\pi}{10}\right) + i\sin\left(\frac{k\pi}{10}\right)$, then $z_1 z_2 z_3 z_4$ is equal to (A) -1 (B) 2 (C) -2 (D) 1 Watch Free Video Solution on Doubtnut

45 - 1228122	If $(a_1+ib_1)(a_2+ib_2)\ldots\ldots(a_n+ib_n)=A+iB$, then $\left(a_1^2+b_1^2\right)\left(a_2^2+b_2^2\right)\ldots\ldots\left(a_n^2+b_n^2\right)$ is equal to (A) 1 (B) $\left(A^2+B^2\right)$ (C) $(A+B)$ (D) $\left(\frac{1}{A^2}+\frac{1}{B^2}\right)$ Watch Free Video Solution on Doubtnut
46 - 1248672	If one of the cube roots of 1 be ω, then $\begin{vmatrix} 1 & 1+\omega^2 & \omega^2 \\ 1-i & -1 & \omega^2-1 \\ -i & -1+\omega & -1 \end{vmatrix}$ (A) ω (B) i (C) 1 (D) 0 Watch Free Video Solution on Doubtnut
47 - 1300201	If $x+y+z+w=0$ then value of $x^3+y^3+z^3+w^3+3(y+z)(z+x)(x+y)=$ (A) 0 (B) 1 (C) 2 (D) 3 Watch Free Video Solution on Doubtnut
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48 - 3280373

For $n \geq 3$, the n roots of unity form (A) a H.P (B) an A.P (C) a G.P

(D) None of these

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49 - 3306502

If $\cos A + \cos B + \cos C = 0$,$\sin A + \sin B + \sin C = 0$ and

$A + B + C = 180^\circ$, then the value of

$\cos 3A + \cos 3B + \cos 3C$ is (A) 3 (B) -3 (C) $\sqrt{3}$ (D) 0

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50 - 3445516

If $a = \cos\theta + i\sin\theta$, $b = \cos\phi + i\sin\phi$, $c = \cos\psi + i\sin\psi$

and $\frac{a}{b} + \frac{b}{c} + \frac{c}{a} = 2$ then

$\sin(\theta - \phi) + \sin(\phi - \psi) + \sin(\psi - \theta)$ equals (A) 3 (B) 0 (C)

$-\frac{3}{2}$ (D) $\frac{3}{2}$

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51 - 3649931	If a and b are imaginary cube roots of unity, then $\alpha^n + \beta^n$ is equal to (A) $2\cos\left(\frac{2n\pi}{3}\right)$ (B) $\cos\left(\frac{2n\pi}{3}\right)$ (C) $2i\sin\left(\frac{2n\pi}{3}\right)$ (D) $i\sin\left(\frac{2n\pi}{3}\right)$ Watch Free Video Solution on Doubtnut
52 - 3705003	The value of $\frac{a+b\omega+c\omega^2}{c+a\omega+b\omega^2}+\frac{a+b\omega+c\omega^2}{b+c\omega+a\omega^2}$ is equal to (A) 1 (B) 0 (C) 2 (D) -1 Watch Free Video Solution on Doubtnut
53 - 4058623	z is a complex number such that $z+\frac{1}{z}=2\cos 3^0$,then the value of $z^{2000}+\frac{1}{z^{2000}}$ is equal to (A) 0 (B) -1 (C) $\sqrt{3}+1$ (D) $1-\sqrt{3}$ Watch Free Video Solution on Doubtnut
54 - 4971996	If w is complex cube root of unity, then $\cos\left[\left\{(1-w)\left(1-w^2\right)+.....+(10-w)\left(10-w^2\right)\right\}\frac{\pi}{100}\right]$ (A) -1 (B) 0 (C) 1 (D) $\sqrt{\frac{3}{2}}$ Watch Free Video Solution on Doubtnut
55 - 5044879	

Let $z = 1 + ai$ be a complex number, $a > 0$,such that z^3 is a real number. Then the sum $1 + z + z^2 + ... + z^{11}$ is equal to: (A) $-1250\sqrt{3}i$ (B) $1250\sqrt{3}i$ (C) $1365\sqrt{3}i$ (D) $-1365\sqrt{3}i$

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56 - 5574361

If a, b, c are real numbers and z is a complex number such that, $a^2 + b^2 + c^2 = 1$ and $b + ic = (1 + a)z$ then $\frac{1 + iz}{1 - iz}$ equals.

(A) $\frac{b - ic}{1 - ia}$ (B) $\frac{a + ib}{1 + c}$ (C) $\frac{1 - c}{a - ib}$ (D) $\frac{1 + a}{b + ic}$

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57 - 5608175

If

$$\left(3 + x^{2008} + x^{2009}\right)^{2010} = a_0 + a_1 x + a_2 x^2 + ... + a_n x^n,$$

then the value of

$a_0 - \frac{1}{2}a_1 - \frac{1}{2}a_2 + a_3 - \frac{1}{2}a_4 - \frac{1}{2}a_5 + a_6 - \ldots\ldots\ldots\ldots$ is (A) 3^{2010} (B) 1 (C) 2^{2010} (D) none of these

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58 - 5765816

If $|z - 25i| \leq 15$, then value of $\max\ (arg(z))$ is (A) $\frac{\pi}{2} + \sin^{-1}\left[\frac{4}{5}\right]$ (B) $\pi + \sin^{-1}\left[\frac{3}{5}\right]$ (C) $\pi + \sin^{-1}\left[\frac{4}{5}\right]$ (D) $\frac{\pi}{2} + \sin^{-1}\left[\frac{3}{5}\right]$

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59 - 6101302

If $x = a + b, y = a\gamma + b\beta$ and $z = a\beta + b\gamma$, where γ and β are the imaginary cube roots ofunity, then $xyz =$ (A) $\left(a^2 + b^2\right)(a + b)$ (B) $a^3 + b^3$ (C) $(a + b)^2(a - b)$ (D) $\left(a^2 - b^2\right)(a + b)$

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60 - 6210358

The smallest positive integral value of n for which $\left(1 + \sqrt{3}i\right)^{\frac{n}{2}}$ is real is (A) 3 (B) 6 (C) 12 (D) 0

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ANSWERS

Ques No.	Answer
1 - 7153	C Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
2 - 7506	A Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
3 - 8716	B Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
4 - 8788	C Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
5 - 10008	A Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
6 - 12289	D Watch Free Video Solution of this Question on Doubtnut

Ques No.	Answer
7 - 12306	C Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
8 - 12316	D Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
9 - 12318	A Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
10 - 12561	B Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
11 - 13826	D Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
12 - 28723	B Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
13 - 28744	D Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
14 - 29013	A Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
15 - 29177	D Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
16 - 37026	A Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
17 - 42400	B Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
18 - 43936	C Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
19 - 44151	C Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**

20 - 45081	C Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
21 - 45191	B Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
22 - 45969	A Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
23 - 51022	A Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
24 - 51652	B Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
25 - 57111	A Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
26 - 57650	D Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
27 - 58763	D Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
28 - 59908	A Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
29 - 66968	C Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
30 - 69173	D Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
31 - 71010	B Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
32 - 76525	D Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
33 - 79819	B

	Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
34 - 80219	**A** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
35 - 84422	**D** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
36 - 85446	**A** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
37 - 89949	**C** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
38 - 111696	**B** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
39 - 202970	**A** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
40 - 246596	**D** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
41 - 361934	**D** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
42 - 386925	**D** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
43 - 1171481	**A** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
44 - 1228115	**A** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
45 - 1228122	**B** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
46 - 1248672	**D**

	Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
47 - 1300201	**A** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
48 - 3280373	**C** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
49 - 3306502	**B** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
50 - 3445516	**B** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
51 - 3649931	**A** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
52 - 3705003	**D** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
53 - 4058623	**A** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
54 - 4971996	**B** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
55 - 5044879	**D** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
56 - 5574361	**B** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
57 - 5608175	**C** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
58 - 5765816	**D** Watch Free Video Solution of this Question on Doubtnut
Ques No.	**Answer**
59 - 6101302	**B** Watch Free Video Solution of this Question on Doubtnut

Ques No.	Answer
60 - 6210358	**B** Watch Free Video Solution of this Question on Doubtnut
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