



# Sri Chaitanya IIT Academy.,India.

❖ A.P ❖ T.S ❖ KARNATAKA ❖ TAMILNADU ❖ MAHARASTRA ❖ DELHI ❖ RANCHI

A right Choice for the Real Aspirant  
ICON Central Office - Madhapur - Hyderabad

**SEC: Sr.Super60\_STERLING BT**

**Time: 09:00AM to 12:00PM**

**JEE-MAIN**

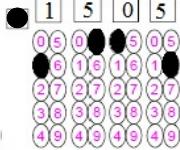
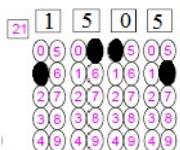
**WTM-34**

**Date: 14-06-2025**

**Max. Marks: 300**

**IMPORTANT INSTRUCTION:**

1. Immediately fill in the Admission number on this page of the Test Booklet with **Blue/Black Ball Point Pen** only.
2. The candidates should not write their Admission Number anywhere (except in the specified space) on the Test Booklet/ Answer Sheet.
3. The test is of **3 hours** duration.!
4. The Test Booklet consists of **75 Questions**. The maximum marks are **300**.
5. There are **three** parts in the question paper 1,2,3 consisting of **Mathematics, Physics and Chemistry** having **25 Questions** in each subject and subject having **two sections**.  
**(I) Section –I** contains **20 Multiple Choice Questions** with only one correct option.  
**Marking scheme:** +4 for correct answer, 0 if not attempt and -1 in all other cases.  
**(II) Section-II** contains **05 Numerical Value Type Questions**.  
■ The Answer should be within **0 to 9999**. If the Answer is in **Decimal** then round off to the **Nearest Integer** value (Example i.e. If answer is above **10** and less than **10.5** round off is **10** and If answer is from **10.5** and less than **11** round off is **11**).  
To cancel any attempted question bubble on the question number box.  
For example: To cancel attempted Question 21. Bubble on 21 as shown below



**Question Answered for Marking      Question Cancelled for Marking**

**Marking scheme:** +4 for correct answer, 0 if not attempt and -1 in all other cases.

6. Use **Blue / Black Point Pen only** for writing particulars / marking responses on the Answer Sheet. **Use of pencil is strictly prohibited.**
7. No candidate is allowed to carry any textual material, printed or written, bits of papers, mobile phone any electron device etc, except the Identity Card inside the examination hall.
8. Rough work is to be done on the space provided for this purpose in the Test Booklet only.
9. On completion of the test, the candidate must hand over the Answer Sheet to the invigilator on duty in the Hall. However, the candidate are allowed to take away this Test Booklet with them.
10. **Do not fold or make any stray marks on the Answer Sheet**

**Name of the Candidate (in Capital):** \_\_\_\_\_

**Admission Number:**

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**Candidate's Signature:** \_\_\_\_\_

**Invigilator's Signature:** \_\_\_\_\_

**14-06-25\_Sr.Super60\_STERLING BT\_Jee-Main\_WTM-34\_Test Syllabus****MATHEMATICS : COMPLETE COMPLEX NUMBERS****PHYSICS**

: MAGNETISM AND MATTER: Bar magnet as an equivalent solenoid, Magnetic field lines, Magnetic field due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis, Torque on a magnetic dipole in a uniform magnetic field, Para, Dia and ferromagnetic substances, The effect of temperature on magnetic properties, EM Waves

**CHEMISTRY**

: ALKYL HALIDES :Preparation and Reactions of alkyl halides, Mechanism of Nucleophilic Substitution reactions (SN1, SN2)

**THE PERFECT HAT-TRICK WITH ALL- INDIA RANK 1  
IN JEE MAIN 2023 JEE ADVANCED 2023 AND NEET 2023****JEE MAIN  
2023**SINGHARAJU  
VENKAT KOUNDRINA  
APPLY NO 202310120556  
CUT-OFF 340  
6th-12th Class  
**300  
300  
MARKS****RANK****1****JEE Advanced  
2023**VARVILALA  
CHIVILAS REDDY  
APPLY NO 2023105995  
CUT-OFF 340  
6th-12th Class  
**341  
360  
MARKS****RANK****1****NEET  
2023**BORA VARUN  
CHAKRAVARTHI  
APPLY NO 2023105997  
CUT-OFF 340  
6th-12th Class  
**720  
720  
MARKS****RANK****1**

**MATHEMATICS****Max Marks: 100****SECTION-I (SINGLE CORRECT ANSWER TYPE)**

This section contains **20 Multiple Choice Questions**. Each question has 4 options (1), (2), (3) and (4) for its answer, out of which ONLY ONE option can be correct.

**Marking scheme: +4 for correct answer, 0 if not attempted and -1 in all other cases.**

1. The number of complex  $z$  satisfying  $|z + \bar{z}| + |z - \bar{z}| = 4$  and  $|z + 2i| + |z - 2i| = 4$  is / are  
 1) 0                    2) 1                    3) 2                    4) 4
2. Let  $A(Z_1), B(Z_2)$  and  $C(Z_3)$  be the vertices of an equilateral  $\Delta ABC$ , then the value of  
 $\text{Arg}\left(\frac{z_2 + z_3 - 2z_1}{z_3 - z_2}\right)$  is equal to  
 1)  $\frac{\pi}{3}$                     2)  $\frac{\pi}{4}$                     3)  $\frac{\pi}{2}$                     4)  $\frac{\pi}{6}$
3. If  $x^2 + x + 1 = 0$ , then the value of  $\left(x + \frac{1}{x}\right)^2 + \left(x^2 + \frac{1}{x^2}\right)^2 + \dots + \left(x^{27} + \frac{1}{x^{27}}\right)^2$  is  
 1) 27                    2) 72                    3) 45                    4) 54
4. If  $|z_1 - 1| \leq 1, |z_2 - 2| \leq 2, |z_3 - 3| \leq 3$ , then the greatest value of  $|z_1 + z_2 + z_3|$  is  
 1) 6                    2) 7                    3) 9                    4) 12
5. If  $a = \cos \frac{2\pi}{7} + i \sin \frac{2\pi}{7}$ , the quadratic equation whose roots are  
 $\alpha = a + a^2 + a^4$  and  $\beta = a^3 + a^5 + a^6$  is  
 1)  $x^2 + x + 2 = 0$             2)  $x^2 - 5x + 7 = 0$             3)  $x^2 - x + 2 = 0$             4)  $x^2 + x - 2 = 0$
6. The complex numbers  $z_1, z_2$  and  $z_3$  satisfying  $\frac{z_1 - z_3}{z_2 - z_3} = \frac{1 - i\sqrt{3}}{2}$  are the vertices of a triangle which is  
 1) of area  $\sqrt{3}$                     2) right angled and isosceles  
 3) equilateral                            4) obtuse angled and isosceles
7. If  $\alpha \neq 1$  is any of  $7^{\text{th}}$  roots of unity, then real part of  $\alpha^{2009} + 3\alpha^{2010} + 5\alpha^{2011} + \dots$  upto to 7 terms is  
 1) 7                    2) 14                    3) -7                    4) -14

**THE PERFECT HAT-TRICK WITH ALL- INDIA RANK 1  
IN JEE MAIN 2023 JEE ADVANCED 2023 AND NEET 2023**
**JEE MAIN 2023**
 SHOBHARAJU  
VENKAT KOUNDRINA  
APPL NO 202310120559  
CET 2023  
6th-12th CLASS  
300 300 MARKS
**RANK****JEE Advanced 2023**
 VAVILALA  
CHIVILAS REDDY  
APPL NO 202310120559  
CET 2023  
6th-12th CLASS  
341 360 MARKS
**RANK****NEET 2023**
 BORA VARUN  
CHAKRAVARTHI  
APPL NO 202310120559  
CET 2023  
6th-12th CLASS  
720 720 MARKS
**RANK**



8. If  $\log_{\tan 30^\circ} \left( \frac{2|z|^2 + 2|z| - 3}{|z| + 1} \right) < -2$  then
- 1)  $|z| < \frac{3}{2}$       2)  $|z| > \frac{3}{2}$       3)  $|z| > 2$       4)  $|z| < 2$

9. Let  $z$  be a complex number satisfying  $|z|^3 + 2z^2 + 4\bar{z} - 8 = 0$ , where  $\bar{z}$  denotes the complex conjugate of  $z$ . Let the imaginary part of  $z$  be nonzero.

Match each entry in List-I to the correct entries in List-II

LIST-I		LIST-II	
I	$ z ^2$ is equal to	P	12
II	$ z - \bar{z} ^2$ is equal to	Q	4
III	$ z ^2 +  z + \bar{z} ^2$ is equal to	R	8
IV	$ z + 1 ^2$ is equal to	S	10
		T	7

The correct option is

- 1) I-P, II-R, III-T, IV-S      2) I-Q, II-P, III-R, IV-T  
 3) I-Q, II-S, III-T, IV-P      4) I-Q, II-R, III-T, IV-S
10. The complex number  $Z = \frac{i-1}{\cos \frac{\pi}{3} + i \sin \frac{\pi}{3}}$  is equal to
- 1)  $\sqrt{2}i \left( \cos \frac{5\pi}{12} - i \sin \frac{5\pi}{12} \right)$       2)  $\sqrt{2} \left( \cos \frac{5\pi}{12} + i \sin \frac{5\pi}{12} \right)$   
 3)  $\sqrt{2} \left( \cos \frac{\pi}{12} + i \sin \frac{\pi}{12} \right)$       4)  $\cos \frac{\pi}{12} - i \sin \frac{\pi}{12}$
11. Let  $z$  be a complex number such that  $\left| \frac{z-2i}{z+i} \right| = 2, z \neq -i$ . Then  $z$  lies on the circles of radius 2 and centre
- 1) (0, 0)      2) (0, -2)      3) (2, 0)      4) (0, 2)

### THE PERFECT HAT-TRICK WITH ALL- INDIA RANK 1 IN JEE MAIN 2023 JEE ADVANCED 2023 AND NEET 2023

JEE MAIN 2023

 SHOBHRAJU  
VENKAT KOUNDINYA  
APPL. NO. 20230120259  
CUT-OFF 100%  
6th-12th CLASS  
300  
300  
MARKS


RANK

JEE Advanced 2023

 VAVILALA  
CHIOVILAS REDDY  
APPL. NO. 20230120259  
CUT-OFF 100%  
6th-12th CLASS  
341  
360  
MARKS


RANK

NEET 2023

 BORA VARUN  
CHAKRAVARTHI  
APPL. NO. 20230120259  
CUT-OFF 100%  
6th-12th CLASS  
720  
720  
MARKS


RANK



12. Let  $S_1, S_2$  and  $S_3$  be three sets defined as:

$$S_1 = \{z \in \mathbb{C} : |z - 1| \leq \sqrt{2}\}; S_2 = \{z \in \mathbb{C} : \operatorname{Re}((1-i)z) \geq 1\}; S_3 = \{z \in \mathbb{C} : \operatorname{Im}(z) \leq 1\}$$

Then the set  $S_1 \cap S_2 \cap S_3$

- 1) is a singleton
  - 2) has exactly two elements
  - 3) has infinitely many elements
  - 4) has exactly three elements
13. A complex number  $z$  is said to be unimodular if  $|z|=1$ . Suppose  $z_1$  and  $z_2$  are complex numbers such that  $\frac{z_1 - 2z_2}{2 - z_1 z_2}$  is unimodular and  $z_2$  is not unimodular. Then the point  $z_1$  lies on
- 1) a circle of radius 2
  - 2) a circle of radius  $\sqrt{2}$
  - 3) a straight line parallel to x-axis
  - 4) a straight line parallel to y-axis
14. Statement – I: If argument of  $z_1 = \frac{\pi}{3}$ , argument of  $z_2 = \frac{\pi}{4}$ , then  $\operatorname{Arg}(z_1 z_2) = \frac{7\pi}{12}$   
 Statement – II:  $\operatorname{Arg}(z_1 z_2) = \operatorname{Arg}(z_1) + \operatorname{Arg}(z_2)$
- 1) Statement – I is true, Statement – II is true
  - 2) Statement - I is false, Statement - II is false
  - 3) Statement – I is true, Statement – II is false
  - 4) Statement – I is false, Statement – II is true.
15. Let  $w_1$  be the point obtained by the rotation of  $z_1 = 5 + 4i$  about the origin through a right angle in the anticlockwise direction and  $w_2$  be the point obtained by the rotation of  $z_2 = 3 + 5i$  about the origin through a right angle in the clockwise direction. Then the principal argument of  $w_1 - w_2$  is equal to

- 1)  $-\pi + \tan^{-1} \frac{33}{5}$
- 2)  $-\pi - \tan^{-1} \frac{33}{5}$
- 3)  $-\pi + \tan^{-1} \frac{8}{9}$
- 4)  $\pi - \tan^{-1} \frac{8}{9}$

**THE PERFECT HAT-TRICK WITH ALL- INDIA RANK 1  
IN JEE MAIN 2023 JEE ADVANCED 2023 AND NEET 2023**

JEE MAIN 2023	RANK	JEE Advanced 2023	RANK	NEET 2023	RANK
SIMHARAJU VENKAT KOUNDRINA APPL NO 20230120255 EXAM NO 20230120255 6th-12th CLASS 300 300 MARKS	1	VAVILALA CHIOVILAS REDDY APPL NO 20230120255 EXAM NO 20230120255 6th-12th CLASS 341 360 MARKS	1	BORA VARUN CHAKRAVARTHI APPL NO 20230120255 EXAM NO 20230120255 6th-12th CLASS 720 720 MARKS	1



16. If  $\operatorname{Re}\left(\frac{z-1}{2z+i}\right)=1$ , where  $z=x+iy$ , then the point  $(x, y)$  lies on a :
- 1) circle whose centre is at  $\left(-\frac{1}{2}, -\frac{3}{2}\right)$
  - 2) straight line whose slope is  $-\frac{2}{3}$
  - 3) straight line whose slope is  $\frac{3}{2}$
  - 4) circle whose diameter is  $\frac{\sqrt{5}}{2}$
17. Let O be the origin and A be the point  $z_1=3+2i$ . If B is the point  $z_2$ ,  $\operatorname{Re}(z_2)<0$  such that OAB is a right angled isosceles triangle with OB as hypotenuse, then
- 1)  $\operatorname{Arg}(z_2)=\tan^{-1}\left(\frac{1}{5}\right)$
  - 2)  $|z_2-z_1|=\sqrt{10}$
  - 3)  $|z_2|=\sqrt{26}$
  - 4)  $\operatorname{Arg}|z_2-z_1|=\pi-\tan^{-1}\left(\frac{2}{3}\right)$
18. Let  $z$  and  $\omega$  be complex numbers such that  $\bar{z}+i\bar{\omega}=0$  and  $\arg z\omega=\pi$ . Then  $\arg z$  equals
- 1)  $\frac{5\pi}{4}$
  - 2)  $\frac{\pi}{2}$
  - 3)  $\frac{3\pi}{4}$
  - 4)  $\frac{\pi}{4}$
19. If  $\frac{3+i \sin \theta}{4-i \cos \theta}, \theta \in [0, 2\pi]$  is a real number, then an argument of  $\sin \theta + i \cos \theta$  is
- 1)  $\pi-\tan^{-1}\left(\frac{4}{3}\right)$
  - 2)  $\pi-\tan^{-1}\left(\frac{3}{4}\right)$
  - 3)  $-\tan^{-1}\left(\frac{3}{4}\right)$
  - 4)  $\tan^{-1}\left(\frac{4}{3}\right)$
20. Let a complex number be  $w=1-\sqrt{3}i$ . Let another complex number  $z$  be such that  $|zw|=1$  and  $\arg(z)-\arg(w)=\frac{\pi}{2}$ . Then the area of the triangle with vertices origin,  $z$  and  $w$  is equal to
- 1)  $\frac{1}{2}$
  - 2) 2
  - 3) 4
  - 4)  $\frac{1}{4}$

### SECTION-II (NUMERICAL VALUE TYPE)

This section contains 5 Numerical Value Type Questions. The Answer should be within 0 to 9999. If the Answer is in Decimal then round off to the Nearest Integer value (Example i.e. If answer is above 10 and less than 10.5 round off is 10 and If answer is from 10.5 and less than 11 round off is 11).

**Marking scheme:** +4 for correct answer, 0 if not attempt and -1 in all other cases.

**THE PERFECT HAT-TRICK WITH ALL- INDIA RANK 1  
IN JEE MAIN 2023 JEE ADVANCED 2023 AND NEET 2023**

JEE MAIN 2023	RANK	JEE Advanced 2023	RANK	NEET 2023	RANK
SIMHARAJU VENKAT KOUNDRINA APPL NO 2023102255 CUT-OFF 100.00 6th-12th CLASS 300 300 MARKS	1	VAVILALA CHIVULAS REDDY APPL NO 2023102256 CUT-OFF 100.00 6th-12th CLASS 341 360 MARKS	1	BORA VARUN CHAKRAVARTHI APPL NO 2023102257 CUT-OFF 100.00 6th-12th CLASS 720 720 MARKS	1



21. If  $z = x + 3i$ , then the value of  $\int_2^4 \left[ \arg \left| \frac{z-i}{z+i} \right| \right] dx$ , where  $[.]$  denotes the greatest integer function and  $i = \sqrt{-1}$  is
22. Let  $\alpha, \beta$  be the roots of the equation  $x^2 - \sqrt{6}x + 3 = 0$  such that.  $\operatorname{Im}(\alpha) > \operatorname{Im}(\beta)$  let  $a, b$  be integers not division by 3 and  $n$  be natural number such that  $\frac{\alpha^{99}}{\beta} + \alpha^{98} = 3^n(a+ib), i = \sqrt{-1}$  then  $n+a+b$  is equal to
23. Let  $A, B, C$  be three sets of complex numbers defined below
- $$A = \{z : |z+1| \leq 2 + \operatorname{Re}(z)\}; B = \{z : |z-1| \geq 1\}; C = \left\{ z : \left| \frac{z-1}{z+1} \right| \geq 1 \right\}$$
- The number of points having integral coordinates in the region  $A \cap B \cap C$  is
24. Let  $z \in C$  and if  $A = \left\{ z : \arg(z) = \frac{\pi}{4} \right\}$  and  $B = \left\{ z : \arg(z-3-3i) = \frac{2\pi}{3} \right\}$  then  $n(A \cap B)$  is equal to
25. If  $z$  is a complex number, then the number of common roots of the equation  $z^{1985} + z^{100} + 1 = 0$  and  $z^3 + 2z^2 + 2z + 1 = 0$  is equal to



**THE PERFECT HAT-TRICK WITH ALL- INDIA RANK 1  
IN JEE MAIN 2023 JEE ADVANCED 2023 AND NEET 2023**

JEE MAIN 2023	RANK	JEE Advanced 2023	RANK	NEET 2023	RANK
SIMHARAJU VENKAT KOUNDRINA APPL NO 20231012555 CET Rank 1 6th-12th Class 300 300 MARKS	1	VAVILALA CHIVILAS REDDY APPL NO 20231015955 CET Rank 1 6th-12th Class 341 360 MARKS	1	BORA VARUN CHAKRAVARTHI APPL NO 20231012555 CET Rank 1 6th-12th Class 720 720 MARKS	1

**PHYSICS****Max Marks: 100****SECTION-I (SINGLE CORRECT ANSWER TYPE)**

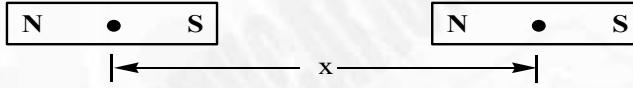
This section contains **20 Multiple Choice Questions**. Each question has 4 options (1), (2), (3) and (4) for its answer, out of which ONLY ONE option can be correct.

**Marking scheme:** +4 for correct answer, 0 if not attempted and -1 in all other cases.

26. A magnet makes 40 oscillations per minute at a place having magnetic field induction of  $0.1 \times 10^{-5} T$ . At another place, it takes 2.5s to complete one vibration. The value of earth's horizontal field at that place is

1)  $0.25 \times 10^{-6} T$       2)  $0.36 \times 10^{-6} T$       3)  $0.66 \times 10^{-8} T$       4)  $1.2 \times 10^{-6} T$

27. The mid points of two small magnetic dipoles of length  $d$  in end-on positions, are separated by a distance  $x$  ( $x \gg d$ ). The magnitude of force between them is proportional to  $x^{-n}$  where  $n$  is \_\_\_\_\_



1) 3      2) 4      3) 2      4) 1

28. A deflection magnetometer is placed with its arm along the east-west direction and a bar magnet is placed along the arm of the magnetometer. Due to the magnet, the deflection observed is  $\theta$  and the period of oscillation of the needle in the magnetometer is  $T$ , When the magnet is removed, the period oscillation is  $T_0$ . The relation between  $T$  and  $T_0$  is

1)  $T^2 = T_0^2 \cos \theta$       2)  $T = T_0 \cos \theta$       3)  $T = \frac{T_0}{\cos \theta}$       4)  $T^2 = \frac{T_0}{\cos \theta}$

29. A magnetic needle free to rotate in a horizontal plane is placed at the centre of a circular current-carrying coil whose axis is perpendicular to the magnetic meridian at that place. It is also known that the magnetic declination at this place is zero and, in this condition, the magnetic needle is pointing towards the north-west. Now, if we reverse the direction of current in the coil, then the magnetic needle will

1) point north-west      2) point north-east  
3) point south-east      4) point south-west

**THE PERFECT HAT-TRICK WITH ALL- INDIA RANK 1  
IN JEE MAIN 2023 JEE ADVANCED 2023 AND NEET 2023**

**JEE MAIN  
2023**

SIMHARAJU  
VENKAT KOUNDRINA  
APPLY NO 2001012023  
CUT-OFF 341  
RANK 300  
6th-12th CLASS  
300  
300  
MARKS

**RANK**

**1**

**JEE Advanced  
2023**

VAVILALA  
CHIVILAS REDDY  
APPLY NO 2001012023  
CUT-OFF 341  
RANK 360  
6th-12th CLASS  
341  
360  
MARKS

**RANK**

**1**

**NEET  
2023**

BORA VARUN  
CHAKRAVARTHI  
APPLY NO 2001012023  
CUT-OFF 720  
RANK 720  
6th-12th CLASS  
720  
720  
MARKS

**RANK**

**1**



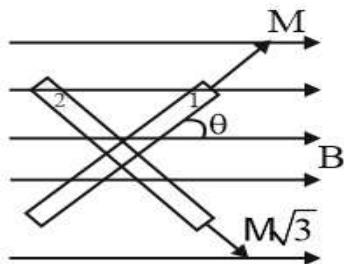
30. Two identical short bar magnets each having magnetic moment  $M$  are placed at a distance of  $2d$  with their axes perpendicular to each other in a horizontal plane. The magnetic induction at a point midway between them is
- 1)  $\frac{\sqrt{2}\mu_0 M}{4\pi d^3}$
  - 2)  $\frac{\sqrt{3}\mu_0 M}{4\pi d^3}$
  - 3)  $\frac{\mu_0 M}{4\pi d^3}$
  - 4)  $\frac{\sqrt{5}\mu_0 M}{4\pi d^3}$
31. A deflection magnetometer is placed with its arm along the east-west direction (tan A position) and a short bar magnet is placed symmetrically along it axis at some distance with its north pole pointing towards east. In this position the needle of the magnetometer shows a deflection of  $60^\circ$ . If we double the distance of the bar magnet, then the deflection will be
- 1)  $\sin^{-1}\left[\frac{\sqrt{3}}{8}\right]$
  - 2)  $\cos^{-1}\left[\frac{\sqrt{3}}{8}\right]$
  - 3)  $\tan^{-1}\left[\frac{\sqrt{3}}{8}\right]$
  - 4)  $\cot^{-1}\left[\frac{\sqrt{3}}{8}\right]$
32. The B-H curve for a ferromagnet is shown in the figure. The ferromagnet is placed inside a long solenoid with  $1000$  turns  $cm^{-1}$ . The current should be passed in the solenoid to demagnetize the ferromagnet completely is
- 
- 1) 2 mA      2)  $20 \mu A$       3) 1 mA      4)  $40 \mu A$
33. Two bar magnets A and B are placed one over the other and are allowed to vibrate in a vibration magnetometer. They make 20 oscillations per minute when the similar poles A and B are on the same side, while they make 15 oscillations per minute when their opposite poles lie on the same side. If  $M_A$  and  $M_B$  are the magnetic moments of A and B if  $M_A$  and  $M_B$ , the ratio of  $M_A$  and  $M_B$  is
- 1) 4:3
  - 2) 25:7
  - 3) 7:5
  - 4) 25:16

**THE PERFECT HAT-TRICK WITH ALL- INDIA RANK 1  
IN JEE MAIN 2023 JEE ADVANCED 2023 AND NEET 2023**

JEE MAIN 2023	RANK	JEE Advanced 2023	RANK	NEET 2023	RANK
SIMHARAJU VENKAT KOUNDINYA APPL. NO. 20231012559 CUT-OFF: 341 6th-12th CLASS 300 300 MARKS	1	VAVILALA CHIOVILAS REDDY APPL. NO. 20231012559 CUT-OFF: 341 6th-12th CLASS 360 341 MARKS	1	BORA VARUN CHAKRAVARTHI APPL. NO. 20231012559 CUT-OFF: 720 6th-12th CLASS 720 720 MARKS	1



34. Two short bar magnets of dipole moments  $M$  and  $M\sqrt{3}$  are joined at right angles to form a cross as depicted in the figure. The value of  $\theta$  for which the system remains in equilibrium in a uniform external magnetic field  $B$  is

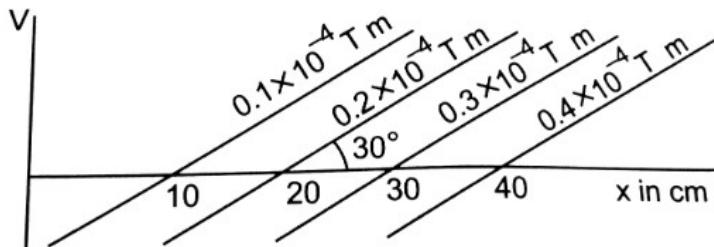


- 1)  $\theta = 30^\circ$       2)  $\theta = 45^\circ$       3)  $\theta = 60^\circ$       4)  $\theta = 15^\circ$

35. A paramagnetic substance, in the form of a cube with sides 1 cm, has a magnetic dipole moment of  $20 \times 10^{-6} JT^{-1}$ , when a magnetic intensity of  $60 \times 10^3 Am^{-1}$  is applied. Its magnetic susceptibility is

- 1)  $3.3 \times 10^{-4}$       2)  $2.3 \times 10^{-2}$       3)  $4.3 \times 10^{-2}$       4)  $3.3 \times 10^{-2}$

36. Figure shows some equipotential surfaces of the magnetic scalar potential. Find the magnetic field at B at a point in the region



- 1)  $10^{-4} T$       2)  $3 \times 10^{-4} T$       3)  $2 \times 10^{-4} T$       4)  $5 \times 10^{-4} T$

37. A monochromatic beam of light has a frequency  $v = \frac{3}{2\pi} \times 10^{12} Hz$  and is propagating along the direction  $\frac{\hat{i} + \hat{j}}{\sqrt{2}}$ . It is polarized along the  $\hat{k}$  direction. The acceptable form for the magnetic field is

- 1)  $k \frac{E_0}{C} \left( \frac{\hat{i} - \hat{j}}{\sqrt{2}} \right) \cos \left[ 10^4 \left( \frac{\hat{i} - \hat{j}}{\sqrt{2}} \right) \vec{r} - (3 \times 10^{12}) t \right]$       2)  $\frac{E_0}{C} \left( \frac{\hat{i} - \hat{j}}{\sqrt{2}} \right) \cos \left[ 10^4 \left( \frac{\hat{i} + \hat{j}}{\sqrt{2}} \right) \vec{r} - (3 \times 10^{12}) t \right]$   
 3)  $\frac{E_0}{C} \hat{k} \cos \left[ 10^4 \left( \frac{\hat{i} + \hat{j}}{\sqrt{2}} \right) \vec{r} + (3 \times 10^{12}) t \right]$       4)  $\frac{E_0}{C} \left( \frac{\hat{i} + \hat{j} + \hat{k}}{\sqrt{3}} \right) \cos \left[ 10^4 \left( \frac{\hat{i} + \hat{j}}{\sqrt{2}} \right) \vec{r} + (3 \times 10^{12}) t \right]$



38. Given below in the left column are different modes communication using the kinds of waves given in the right column.

- |                                |                   |
|--------------------------------|-------------------|
| A) Optical Fiber Communication | P) Ultrasound     |
| B) Radar                       | Q) Infrared Light |
| C) Sonar                       | R) Microwaves     |
| D) Mobile Phones               | S) Radio Waves    |

From the options given below, find the most appropriate match between entries in the left and the right column.

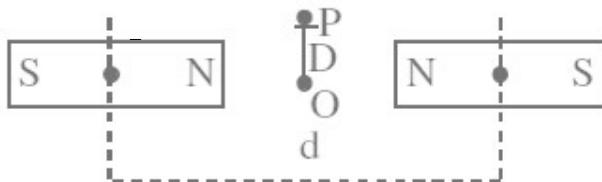
- |                       |                       |
|-----------------------|-----------------------|
| 1) A-Q; B-S; C-R; D-P | 2) A-S; B-Q; C-R; D-P |
| 3) A-Q; B-S; C-P; D-S | 4) A-R; B-P; C-S; D-Q |

39. Assertion: Magnetism is relativistic

Reason: When we move along with the charge so that there is no motion relative to us, we find no magnetic field associated with the charge

- 1) If both Assertion and Reason are correct and the Reason is a correct explanation of the Assertion
- 2) If both Assertion and Reason are correct and the Reason is not a correct explanation of the Assertion
- 3) If the Assertion is correct but Reason is incorrect
- 4) If both the Assertion and Reason is incorrect

40. Two identical bar magnets are fixed with their centers at a distance  $d$  apart. A stationary charge  $Q$  is placed at  $P$  in between the gap of the two magnets at a distance  $D$  from the centre  $O$  as shown in the figure



The forces on the charge  $Q$  is

- |   |                      |
|---|----------------------|
| 1) directed perpendicular to the plane of paper | 2) Zero              |
| 3) directed along OP                            | 4) directed along PO |

41. Assertion: Electromagnetic are made of soft iron

Reason: Coercivity of soft iron is small

- 1) If both Assertion and Reason are correct and the Reason is the correct explanation of the Assertion
- 2) If both Assertion and Reason are correct and the Reason is not a correct explanation of the Assertion
- 3) If the Assertion is correct but Reason is incorrect
- 4) If both the Assertion and Reason is incorrect



42. Statement1: The sensitivity of a moving coil galvanometer is increased by placing a suitable magnetic material as a core inside the coil.  
 Statement 2: Soft iron has a high magnetic permeability and cannot be easily magnetized or demagnetized.  
 1) Statement 1 is true; Statement 2 is true; Statement 2 is the correct explanation for statement 1.  
 2) Statement 1 is true; Statement 2 is true; Statement 2 is the not correct explanation for statement 1.  
 3) Statement 1 is true but statement 2 is false  
 4) statement 1 is false but statement 2 is true
43. In terms of potential difference V, electric current I, permittivity  $\epsilon_0$ , permeability  $\mu_0$  and speed of light c, the dimensionally correct equation (s) is (are):  
 A)  $\mu_0 I^2 = \epsilon_0 V^2$       B)  $\epsilon_0 I = \mu_0 V$       C)  $I = \epsilon_0 c V$       D)  $\mu_0 c I = \epsilon_0 V$   
 Choose the correct answer from the following  
 1) A and D only    2) B and C only    3) A, B and C    4) A and C
44. The electric field associated with an electromagnetic wave propagating in a dielectric medium is given by  $\vec{E} = 30(2\hat{x} + \hat{y}) \sin\left[2\pi\left(5 \times 10^4 t - \frac{10^7}{3} z\right)\right] V m^{-1}$ . which of the following option(s) is (are) correct? [ Given: The speed of light in vacuum,  $c = 3 \times 10^8 m s^{-1}$  ]  
 A)  $B_x = -2 \times 10^{-7} \sin\left[2\pi\left(5 \times 10^{14} t - \frac{10^7}{3} z\right)\right] W b m^{-2}$   
 B)  $B_y = -2 \times 10^{-7} \sin\left[2\pi\left(5 \times 10^{14} t - \frac{10^7}{3} z\right)\right] W b m^{-2}$   
 C) The wave is polarized in the xy-plane with polarization angle  $30^\circ$  with respect to the x-axis.  
 D) The refractive index of the medium is 2.  
 1) A and D only    2) B and C only    3) A, B and C    4) A and C
45. The time of vibration of a dip needle vibration in the vertical plane in the magnetic meridian is 3s. When the same magnitude needle is made to vibrate in the horizontal plane, the time of vibration is  $3\sqrt{2}s$ . The angle of dip will be  
 1) 90      2) 60      3) 45      4) 30

### SECTION-II (NUMERICAL VALUE TYPE)

This section contains **5 Numerical Value Type Questions**. The Answer should be within **0 to 9999**. If the Answer is in **Decimal** then round off to the **Nearest Integer** value (Example i.e. If answer is above **10** and less than **10.5** round off is **10** and If answer is from **10.5** and less than **11** round off is **11**).

**Marking scheme:** +4 for correct answer, 0 if not attempt and -1 in all other cases

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VENKAT KOUNDINYA  
APPLY NO 20231020255  
CUT-OFF 341  
RANK 300  
6th-12th CLASS  
300  
300  
MARKS


RANK

JEE Advanced 2023

 VARVILALA  
CHIOLALAS REDDY  
APPLY NO 20231020254  
CUT-OFF 341  
RANK 360  
6th-12th CLASS  
341  
360  
MARKS


RANK

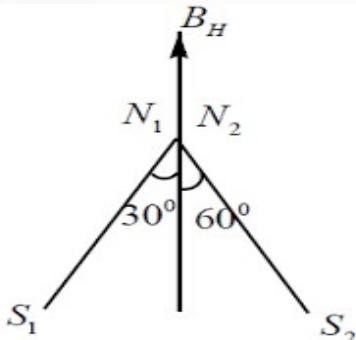
NEET 2023

 BORA VARUN  
CHAKRAVARTHI  
APPLY NO 20231020252  
CUT-OFF 720  
RANK 720  
6th-12th CLASS  
720  
720  
MARKS


RANK



46. Two small magnets X and Y of dipole moments  $M_1$  and  $M_2$  are fixed perpendicular to each other with their north poles in contact. This arrangement is placed on a floating body so as to move freely in earth's magnetic field as shown in figure then the ratio of magnetic moment is  $\sqrt{2^n - 1}$  then n is



47. An iron rod is subjected to cycles of magnetization at the rate of 50Hz. Given the density of the rod is  $8 \times 10^3 \text{ kg/m}^3$  and specific heat is  $0.11 \times 10^{-3} \text{ cal/kg}^\circ\text{C}$ . The rise in temperature per minute, if the area enclosed by the B-H loop corresponds to energy of  $10^{-2} \text{ J}$  is (assume there is no radiation losses)  $(\sqrt{8^y} + 0.1)^0 \text{ }^\circ\text{C}$  then y is
48. Seawater at a frequency  $f = 9 \times 10^2 \text{ Hz}$ , has permittivity  $\epsilon = 80\epsilon_0$  and resistivity  $\rho = 0.25 \Omega \text{ m}$   
Imagine a parallel plate capacitor is immersed in seawater and is driven by an alternating voltage source  $V(t) = V_0 \sin(2\pi ft)$ . Then the conduction current density becomes  $10^x$  times the displacement current density after time  $t = \frac{1}{800} \text{ s}$ . The value of x is \_\_\_\_\_.

$$\left( \text{Given } \frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{ Nm}^2 \text{ C}^{-2} \right)$$

49. A plane electromagnetic wave of frequency 25GHz is propagating in vacuum along the z-direction. At a particular point in space and time, the magnetic field is given by  $\vec{B} = 5 \times 10^{-8} \hat{j} T$ . The corresponding electric field  $\vec{E}$  is  $x \hat{i} V/m$  (speed of light  $C = 3 \times 10^8 \text{ ms}^{-1}$ ). What is the value of 'x'?
50. A plane electromagnetic wave of frequency 500 MHz is travelling in vacuum along the y-direction. At a particular point in space and time,  $\vec{B} = 8.0 \times 10^{-8} \hat{z} T$ . The value of electric field at this point is  $-N \hat{x} V/m$  (speed of light  $= 3 \times 10^8 \text{ ms}^{-1}$ ,  $\hat{x}, \hat{y}, \hat{z}$  are unit vectors along x, y and z directions). What is the value of N?

**CHEMISTRY****Max Marks: 100****SECTION-I (SINGLE CORRECT ANSWER TYPE)**

This section contains **20 Multiple Choice Questions**. Each question has 4 options (1), (2), (3) and (4) for its answer, out of which ONLY ONE option can be correct.

**Marking scheme: +4 for correct answer, 0 if not attempted and -1 in all other cases.**

51. Given below are two statements

Statement-1:  $CH_3-O-CH_2-Cl$  will undergo  $S_N1$  reaction through it is a primary halide

Statement-2: Polar aprotic solvents favours  $S_N2$  reaction

Choose the most appropriate answer

- 1) Both statement-1 and statement-2 are correct
- 2) Both statement-1 and statement-2 are incorrect
- 3) Statement-1 is correct but statement-2 is incorrect
- 4) Statement-1 is incorrect but statement-2 is correct

52. The structures of major products A and B formed in the following reactions are



- 1)  $CH_3CH_2CH_2-ONO, CH_3CH_2CH_2-CN$
- 2)  $CH_3CH_2CH_2-NO_2, CH_3CH_2CH_2-NC$
- 3)  $CH_3CH_2CH_2-ONO, CH_3CH_2CH_2-NC$
- 4)  $CH_3CH_2CH_2-NO_2, CH_3CH_2CH_2-CN$

53. Given below are two statements

Statement-1: High concentration of strong nucleophile with secondary alkyl halide which do not have bulky substituents will follow  $S_N2$  Mechanism.

Statement-2: Racemisation occurs in both  $S_N1$  and  $S_N2$  reactions

Choose the most appropriate answer

- 1) Both statement-1 and statement-2 are correct
- 2) Both statement-1 and statement-2 are incorrect
- 3) Statement-1 is correct but statement-2 is incorrect
- 4) Statement-1 is incorrect but statement-2 is correct

54. Assertion (A): Vinyl halides do not undergo nucleophilic substitution easily.

Reason (R): The bond cleavage is difficult because C-X bond gets partial double bond due to resonance.

- 1) Both (A) and (R) correct and (R) is correct explanation of (A)
- 2) Both (A) and (R) are correct but (R) is not the correct explanation of (A)
- 3) (A) is correct but (R) is wrong
- 4) (A) is wrong but (R) is correct

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APPLY NO 20030120230

CBSE CLASS

300  
300  
MARKS

**RANK 1**

**JEE Advanced 2023**

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CHIVILAS REDDY

APPLY NO 20030120230

CBSE CLASS

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360  
MARKS

**RANK 1**

**NEET 2023**

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CHAKRAVARTHI

APPLY NO 20030120230

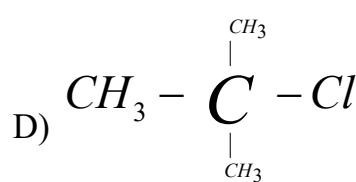
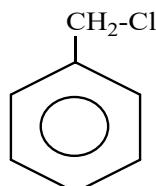
CBSE CLASS

720  
720  
MARKS

**RANK 1**



55. Which of the following halide/s will show  $S_N1$  reaction



Choose the most appropriate answer

- 1) A, B and D only    2) D only    3) A, C and D only    4) B and D only

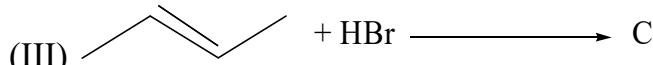
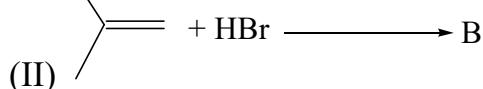
56. Match the following

COLUMN (I)		COLUMN (II)	
A		$\xrightarrow{CH_3CH_2O^- Na^+}$	P Inversion
B		$\xrightarrow{CH_3CH_2O^- Na^+}$	Q Racemisation
C	$pH - \begin{array}{c} Br \\   \\ C \\   \\ CH_3 \end{array} - CH_2 - CH_3 \xrightarrow{H_2O}$		R Haffmann product
D	$CH_3 - \begin{array}{c} CH \\   \\ D \end{array} - Cl \xrightarrow{OH^- aq}$		S Saytzeff's product

- 1) A-R, B-S, C-Q, D-P    2) A-P, B-Q, C-R, D-S

- 3) A-R, B-Q, C-S, D-P    4) A-S, B-R, C-P, D-Q

57. The increasing order of the boiling points of the major products A, B and C of the following reactions will be



- 1) II<III<I

- 2) III<I<II

- 3) I<II<III

- 4) I<III<II



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CBSE 12TH CLASS  
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300  
MARKS



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JEE Advanced  
2023

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CHIVILASA REDDY  
APPL NO 2023102256  
CBSE 12TH CLASS  
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360  
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CBSE 12TH CLASS  
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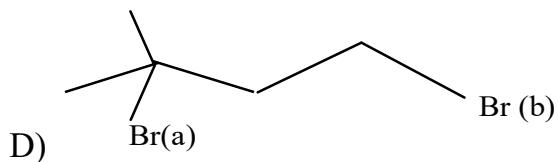
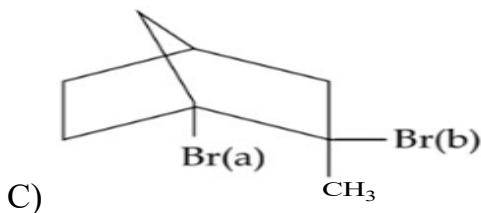
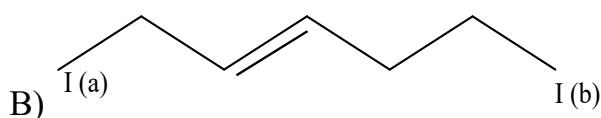
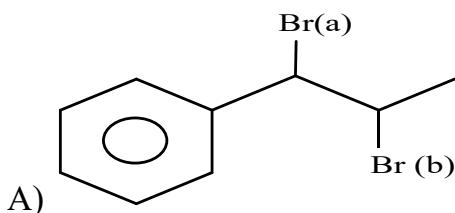
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58. Choose the halogen which is most reactive towards  $S_N1$  in the given compounds

A, B, C and D.

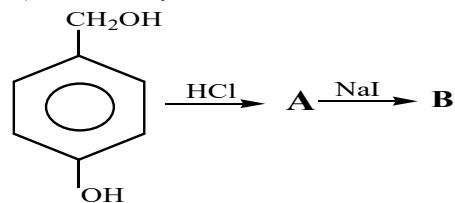


1) A-Br(a); B-I(a); C-Br(b); D-Br(a)    2) A-Br(b); B-I(a); C-Br(a); D-Br(a)

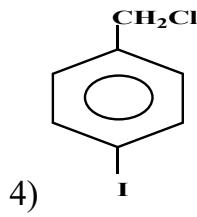
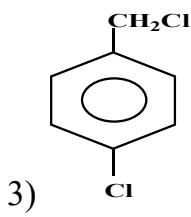
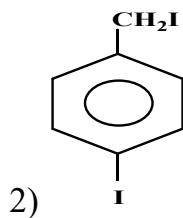
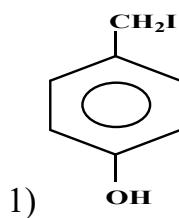
3) A-Br(b); B-I(b); C-Br(a); D-Br(b)    4) A-Br(a); B-I(a); C-Br(a); D-Br(a)

59. The synthesis of alkyl fluorides is best accomplished by

- |                         |                         |
|-------------------------|-------------------------|
| 1) Finkelstein reaction | 2) Swart's reaction     |
| 3) Sandmeyer's reaction | 4) Gatterman's reaction |



60. In the above reaction product 'B' is



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MARKS



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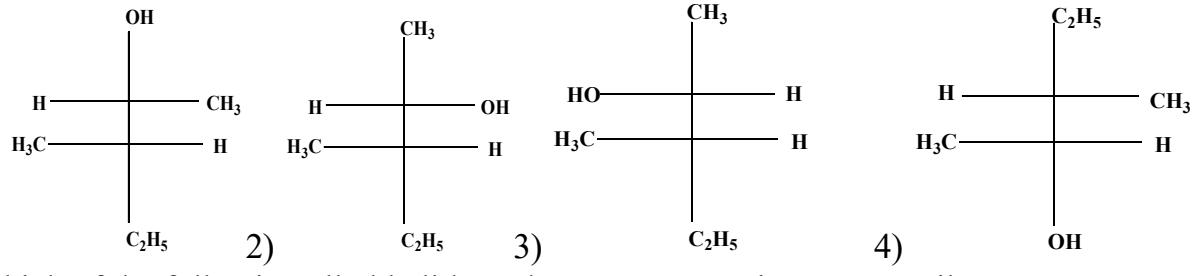
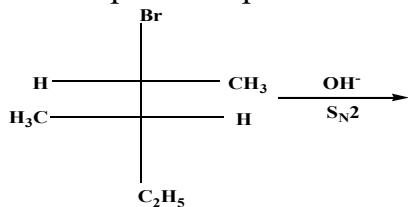
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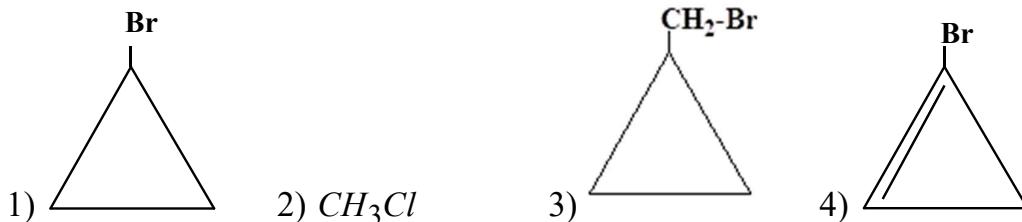
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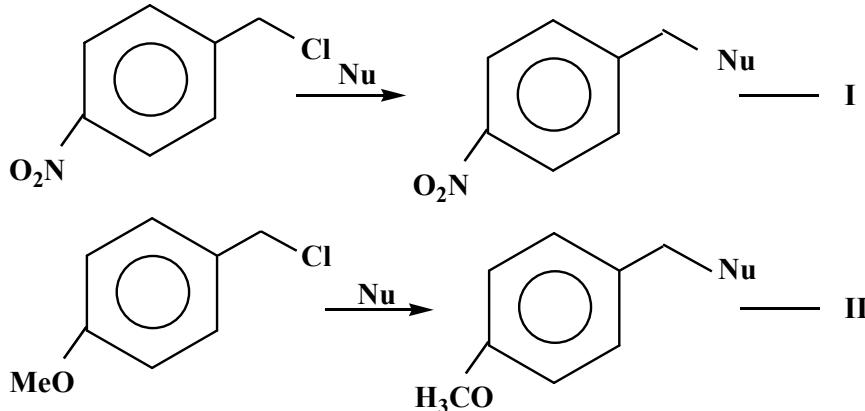
61. In the following reaction the most probable product will be



62. Which of the following alkyl halide undergoes  $S_N1$  reaction more easily?



63.



Where  $\text{Nu}$  = Nucleophilic

Find the correct statement

- 1) Reaction (I) and (II), both are 1<sup>st</sup> order
- 2) Reaction (I) and (II), both are 2<sup>nd</sup> order
- 3) Reaction (I), is 2<sup>nd</sup> order and reaction (II), is 1<sup>st</sup> order
- 4) Reaction (I), is 1<sup>st</sup> order and reaction (II), is 2<sup>nd</sup> order

**THE PERFECT HAT-TRICK WITH ALL- INDIA RANK 1  
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64. Which of the following alkenes when treated with HBr yields majorly an anti-Markovnikov's product?

- 1)  $Cl - CH = CH_2$
- 2)  $CH_3 - CH = CH_2$
- 3)  $H_3CO - CH = CH_2$
- 4)  $O_2N - CH = CH_2$

65. Assertion (A):  $CH_2 = CH - CH_2 - Cl$  is an example of allyl halide

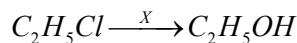
Reason (R): In allyl halides halogen is attached to  $sp^2$  hybridised carbon atom

- 1) Both (A) and (R) correct and (R) is correct explanation of (A)
- 2) Both (A) and (R) are correct but (R) is not the correct explanation of (A)
- 3) (A) is correct but (R) is wrong
- 4) (A) is wrong but (R) is correct

66.  $CH_3 - Cl + NaI \xrightarrow{\text{acetone}} CH_3 - I + NaCl$ . This reaction is

- 1) Wurtz reaction
- 2) fitting reaction
- 3) Finkelstein reaction
- 4) Swart's reaction

67. What is 'X' in the following reaction

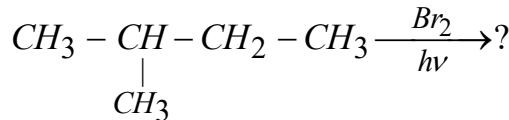


- 1)  $C_2H_5ONa$
- 2) alc KOH
- 3) Aq KOH
- 4)  $NaNH_2$

68.  $CH_3 - CH - CH_3 \xrightarrow[\substack{| \\ Br}{alc KOH}]{} A \xrightarrow[\substack{| \\ peroxide}{HBr}]{} B \xrightarrow[\substack{| \\ Et_2O}{Na}]{} C$  is

- 1) n-hexane
- 2) 2, 3-dimethyl butane
- 3) propene
- 4) propane

69. The major product in the following reaction is



- 1)  $CH_3 - \underset{CH_3}{CH} - CH_2 - CH_2 - Br$
- 2)  $CH_3 - \underset{CH_3}{CH} - CH - CH_3$
- 3)  $CH_2 - \underset{Br}{CH} - CH_2 - CH_3$
- 4)  $CH_3 - \underset{CH_3}{C} - CH_2 - CH_3$

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**300**  
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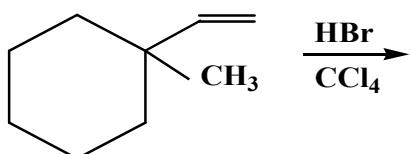
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6th-12th Class  
**341**  
**360**  
MARKS

**NEET 2023**  
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6th-12th Class  
**720**  
**720**  
MARKS

**RANK 1**



70.



Major product is

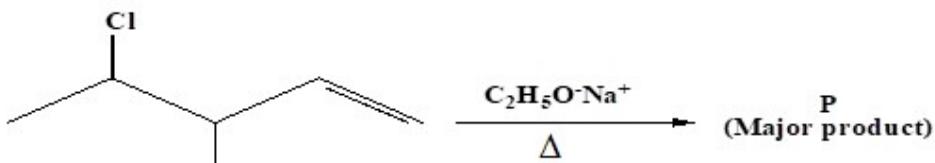
- 1) 2) 3) 4)

**SECTION-II (NUMERICAL VALUE TYPE)**

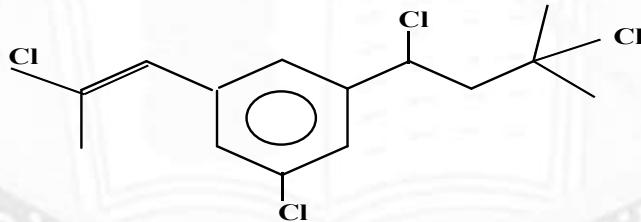
This section contains **5 Numerical Value Type Questions**. The Answer should be within **0 to 9999**. If the Answer is in **Decimal** then round off to the **Nearest Integer** value (Example i.e. If answer is above 10 and less than 10.5 round off is 10 and If answer is from 10.5 and less than 11 round off is 11).

**Marking scheme:** +4 for correct answer, 0 if not attempt and -1 in all other cases

71. Consider the following reaction

The number of  $\pi$  electrons present in the product 'p' is \_\_\_\_\_

72. Number of moles of AgCl formed when the following compound undergoes  $S_N1$  reaction in presence of  $\text{AgNO}_3$  solution is \_\_\_\_\_



73. How many of the following compounds undergoes  $S_N2$  mechanism?

- A) B) C) D) E)

**THE PERFECT HAT-TRICK WITH ALL- INDIA RANK 1  
IN JEE MAIN 2023 JEE ADVANCED 2023 AND NEET 2023**

JEE MAIN 2023

SIMHARAJU VENKAT KOUNDINYA

APPLY NO 2023102255

CBSE CLASS 12

300 300 MARKS



RANK

JEE Advanced 2023

VARVILALA CHIVULAS REDDY

APPLY NO 2023102255

CBSE CLASS 12

341 360 MARKS



RANK

NEET 2023

BORA VARUN CHAKRAVARTHI

APPLY NO 2023102255

CBSE CLASS 12

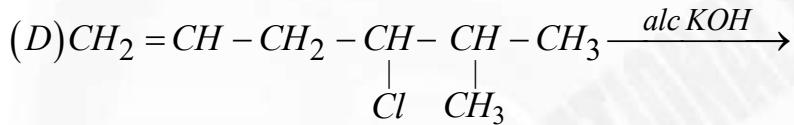
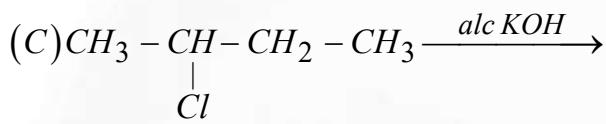
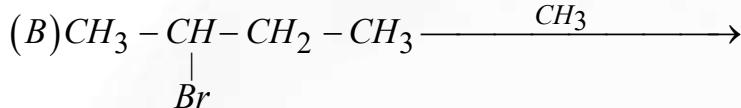
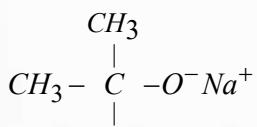
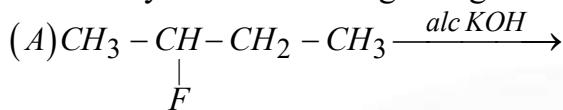
720 720 MARKS



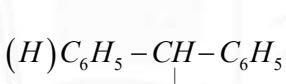
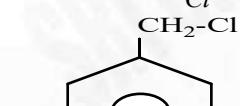
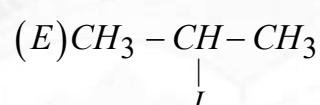
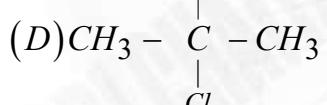
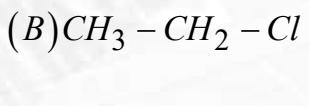
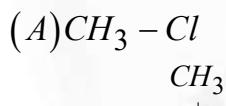
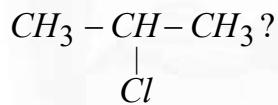
RANK



74. How many of the following will give saytzeff product as major?



75. How many of the following compounds undergoes  $S_N1$  reaction with more rate than  $CH_3 - CH - CH_3$ ?



**THE PERFECT HAT-TRICK WITH ALL- INDIA RANK 1  
IN JEE MAIN 2023 JEE ADVANCED 2023 AND NEET 2023**

JEE MAIN 2023

SINGHARAJU  
VENKAT KOUNDINYA  
APPL NO 202301202555  
CBSE 12TH CLASS  
300 300 MARKS

RANK

JEE Advanced 2023

VAVILALA  
CHIVILAS REDDY  
APPL NO 202301202555  
CBSE 12TH CLASS  
341 360 MARKS

RANK

NEET 2023

BORA VARUN  
CHAKRAVARTHI  
APPL NO 202301202555  
CBSE 12TH CLASS  
720 720 MARKS

RANK



**Sri Chaitanya**  
Educational Institutions

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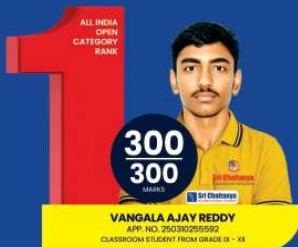


**Sri Chaitanya**  
Techno School  
The right mentor for IIT (JEE), NEET, Olympiad & all Other Competitive exams



## JEE MAIN 2025

# 31 STUDENTS BELOW 100 AIR



VANGALA AJAY REDDY  
APP. NO. 250300295592  
CLASSROOM STUDENT FROM GRADE IX - X



DEVDUTTA MAJHI  
APP. NO. 25030006185  
DLP/AITS STUDENT



TOSHNIWAL SHIVEN  
APP. NO. 25030391420  
DLP/AITS STUDENT



SAKSHAM JINDAL  
APP. NO. 250310236696  
DLP/AITS STUDENT

BELOW  
100  
ALL INDIA OPEN  
CATEGORY RANKS

**31**

BELOW  
500  
ALL INDIA OPEN  
CATEGORY RANKS

**95**

BELOW  
10  
ALL INDIA CATEGORY  
RANKS COUNT

**10**

BELOW  
100  
ALL INDIA CATEGORY  
RANKS COUNT

**98**

BELOW  
1000  
ALL INDIA CATEGORY  
RANKS COUNT

**579**

**TOTAL QUALIFIED RANKS  
FOR JEE ADVANCED-2025** **22,094**

\*DLP/AITS

## JEE 2025 STARS SHINE BRIGHT

**Sri Chaitanya Tops JEE ADVANCED**

### ALL INDIA OPEN CATEGORY RANKS



RUTVIK SAI  
H.T.No. 256055278 (OBC-NCL)



MAJID MUJAHID HUSAIN  
H.T.No. 251134112\*



UJJWAL KESARI  
H.T.No. 252016104\*



AKSHAT KUMAR CHAURASIA  
H.T.No. 254065055\*

BELOW  
100  
ALL INDIA OPEN  
CATEGORY RANKS

**29**

BELOW  
500  
ALL INDIA OPEN  
CATEGORY RANKS

**113**

BELOW  
1000  
ALL INDIA OPEN  
CATEGORY RANKS

**205**

BELOW  
1000  
ALL INDIA CATEGORY  
RANKS COUNT

**745**

**NUMBER OF  
QUALIFIED RANKS**

**4,212**

\*DLP/AITS



[www.srichaitanya.net](http://www.srichaitanya.net)



040-66 06 06 06

