





SRI CHAITANYA STUDENTS BREAK ALL THE RECORDS IN NEET 2024

11 STUDENTS SCORING 715 MARKS & ABOVE OUT OF 720 MARKS























32 students scored 710 marks and above out of 720 marks in All India Open Category



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We have 664
Students
who scored 650
marks and above



BELOW 100 ALL INDIA RANKS COUNT

RANKS

BELOW 200 ALL INDIA RANKS COUNT

> 16 RANKS

BELOW 500 ALL INDIA RANKS COUNT

> 39 RANKS

BELOW 1000 ALL INDIA RANKS COUNT

> 52 RANKS

NEET - 2025 (Code - 48)

Topic wise Distribution

Grade - 11_CHEMISTRY

S.No.	Chapter Name	No. of Questions
1	Some Basic Concepts of Chemistry	2
2	Structure of Atom	2
3	Classification of Elements and Periodicity in Properties	2
4	Chemical Bonding and Molecular Structure	3
5	Thermodynamics	1
6	Equilibrium	2
7	Redox Reactions	1
8	Organic Chemistry – Some Basic Principles and Techniques	3
9	Hydrocarbons	3
10	P-Block	2

Grade - 12 CHEMISTRY

S.No.	Chapter Name	No. of Questions	
1	Solutions	2	
2	Electrochemistry	1	
3	Chemical Kinetics	4	
4	The d and f-Block Elements	2	
5	Coordination Compounds	3	
6	Haloalkanes and Haloarenes	1	
7	Alcohols, Phenols and Ethers	0	
8	Aldehydes, Ketones and Carboxylic Acids	2	
9	Amines	4	
10	Biomolecules	2	
11	Practical Chemistry	3	

CHEMISTRY

46. Identify the suitable reagent for the following conversion.

$$\bigcirc OCH_3 \longrightarrow \bigcirc CHO$$

- (1) (i) NaBH₄, (ii) H⁺/H₂O
- (2) $H_2/Pd BaSO_4$
- (3) (i) LiAlH₄, (ii) H^+/H_2O
- (4) (i) AlH(iBu)₂ (ii) H₂O

Ans: (4)

47. The correct order of decreasing acidity of the following aliphatic acids is:

- (1) $HCOOH > CH_3COOH > (CH_3)_2CHCOOH > (CH_3)_3CCOOH$
- (2) $HCOOH > (CH_3)_3CCOOH > (CH_3)_2CHCOOH > CH_3COOH$
- (3) $(CH_3)_3CCOOH > (CH_3)_2CHCOOH > CH_3COOH > HCOOH$
- (4) $CH_3COOH > (CH_3)_2CHCOOH > (CH_2)_3CCOOH > HCOOH$

Ans: (1)

48. Which one of the following reactions does NOT belong to "Lassaigne's test"?

(1) Na + X \rightarrow + NaX

(2) $2CuO + C \xrightarrow{\Delta} 2Cu + CO_2$

(3) Na + C + N \rightarrow NaCN

(4) $2Na + S \rightarrow Na_2S$

Ans: (2)

49. If the rate constant of reaction is $0.03 \, \mathrm{s^{-1}}$, how much time does it take for 7.2 mol L⁻¹ concentration of the reactant to get reduced to $0.9 \, \mathrm{mol} \, \mathrm{L^{-1}}$? (Given: $\log 2 = 0.301$)

- (1) 210 s
- (2) 21.0 s
- (3) 69.3 s
- (4) 23.1 s

Ans: (3)

50. Given below are two statements:

Statement I : A hypothetical diatomic molecule with bond order zero is quite stable.

statement II: As bond order increases, the bond length increases.

In the light of the above statements, choose the most appropriate answer from the options given below :

3

- (1) Statement I is true but Statement II is false
- (2) Statement I is false but Statement II is true
- (3) Both Statement I and Statement II are true
- (4) Both Statement 1 and Statement II are false

Ans: (4)

51. Out of the following complex compounds, which of the compound will be having the minimum conductance in solution?

(1) $[Co(NH_3)_6]Cl_3$

 $(2) \left[\text{Co(NH}_3)_5 \text{CH}_2 \right] \text{Cl}$

(3) $[Co(NH_3)_3Cl_3]$

(4) $[Co(NH_3)_4Cl_2]$

Ans: (3 or 4)

52. Which of the following aqueous solution will exhibit highest boiling point?

(1) 0.01MNa₂SO₄

(2) $0.015M C_6H_{12}O_6$

(3) 0.01 M Urea

(4) 0.01M KNO₃

Ans: (1)

53. Given below are two statements: one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): undergoes SN₂ reaction faster than CI.

n _____

Reason (R): Iodine is a better leaving group because of its large size.

In the light of the above statements, choose the correct answer from the options given below

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

Ans: (3)

54. Consider the following compounds : $\underline{K}O_2$, $H_2\underline{O}_2$ and $H_2\underline{S}O_4$.

The oxidation states of the underlined elements in them are, respectively,

- (1) +1, -2, and +4
- (2) +4, -4, and +6
- (3) +1, -1, and +6
- (4) +2, -2, and +6

55. Match List - I with List - II

List-I

A. Haber process

B. Wacker oxidation

C. Wilkinson catalyst

D. Ziegler estelyst

D. Ziegler catalyst

List-II

I. Fe catalyst

II. PdCl₂

III. [(PPh₃)₃RhCl]

IV. TiCl₄ with Al(CH₃)₃

Choose the correct answer from the options given below:

(1) A-I, B-II, C-III, D-IV

(2) A-I, B-IV, C-III, D-II

(3) A-I, B-II, C-IV, D-III

(4) A-II, B-III, C-I, D-IV

Ans: (1)

56. Given below are two statements:

Statement I: Like nitrogen that can form ammonia, arsenic can form arsine.

Statement II: Antimony cannot form antimony pentoxide.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (1) Statement I is correct, but Statement II is incorrect
- (2) Statement I is incorrect, but Statement II is correct
- (3) Both Statement and Statement II are correct
- (4) Both Statement I and Statement II are incorrect

Ans: (1)

57. Given below are two statements:

Statement I: Ferromagnetism is considered as an extreme form of paramagnetic.

Statement II: The number of unpaired electrons in a Cr^{2+} ion (Z = 24) is the same as that of a Nd^{3+} ion (Z = 60).

In the light of the above statements, choose the correct answer from the options given below:

- (1) Statement I is true but Statement II is false
- (2) Statement I is false but Statement II is true
- (3) Both Statement I and Statement II are true
- (4) Both Statement I and Statement II are false

Ans: (1)

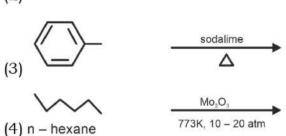
Sri Chaitanya

ACADEMY

58. Which one of the following reactions does NOT give benzene as the product?



$$(2) \qquad \stackrel{\bigoplus}{\bigvee} \stackrel{N}{=} \underset{CI}{\bigvee} \stackrel{H_2O}{\longrightarrow}$$



Ans: (2)

59. Match List-II with List-II

List-I		Lis-II		
A.	XeO ₃	I.)	sp ³ d; linear	
В.	XeF ₂	II.	sp ³ ; pyramidal	
C.	XeOF ₄	III.	sp ³ d ³ ; distorted octahedral	
D.	XeF ₆	IV.	sp ³ d ² ; square pyramidal	

Choose the **correct** answer from the options given below:

- (1) A-IV, B-II, C-III, D-I
- (2) A-IV, B-II, C-I, D-III
- (3) A-II, B-I, C-IV, D-III
- (4) A-II, B-I, C-III, D-IV

Ans: (3)

60. How many products (including stereoisomers) are expected from monochlorination of the following compound?

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

Ans: (2)

- 61. Which of the following statements are true?
 - A. Unlike Ga that has a very high melting point, Cs has a very low melting point.
 - B. On Pauling scale, the electronegativity values of N and Cl are not the same.
 - C. Ar, K⁺, Cl⁻, Ca²⁺, and S²⁻ are all isoelectronic species.
 - D. The correct order of the first ionization enthalpies of Na, Mg, Al, and Si is Si > Al > Mg > Na.
 - E. The atomic radius of Cs is greater than that of Li and Rb.

Choose the correct answer from the options given below:

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

Ans: (4)

- 62. The standard heat of formation, in kcal/mol of Ba²⁺ is:
 - [Given : standard heat of formation of so_4^{2-} ion (aq) = -216kcal/mol, standard heat of crystallization of

 $BaSO_4(s) = -4.5$ kcal/mol, standard heat of formation of $BaSO_4(s) = -349$ kcal/mol]

(1) + 133.0

(2) + 220.5

(3) - 128.5

(4) - 133.0

Ans: (3)

63.

Match List - I with List - II

List-I

List-II

(Example)

(Type of Solution)

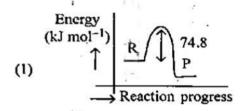
- A. Humidity
- I. Solid in solid
- B. Alloys
- II. Liquid in gas
- C. Amalgams
- III. Solid in gas
- D. Smoke
- IV. Liquid in solid

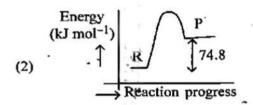
Choose the correct answer from the options given below:

- (1) A-III, B-I, C-IV, D-II,
- (2) A-III, B-II, C-I, D-IVX
- (3) A-II, B-IV, C-I, D-III
- (4) A-II, B-I, C-IV, D-III.

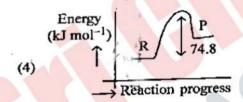
Ans: (4)

- 64. $C(s) + 2H_2(g) \rightarrow CH_4(g)$; $\Delta H = -74.8$ kJ mol⁻¹ Which of the following diagrams gives an accurate representation of the above reaction?
 - $[R \rightarrow \text{reactants}; P \rightarrow \text{products}]$





(3) Energy (kJ mol⁻¹)
$$R$$
 P R Reaction progress



Ans: (3)

- 65. Sugar 'X'
 - A. is found in honey
 - B. is a keto sugar.
 - C. exists in α and β -anomeric forms.
 - D. is laevorotatory
 - 'X' is:
 - (1) Maltose
- (2) Sucrose
- (3) D-Glucose
- (4) D-Fructose

Ans: (4)

66.	Total number of possible isomers (both structural as well as stereoisomers) of cyclic ethers of molecular formula C_4H_80 is:				
	(1) 10	(2) 11	(3) 6	(4) 8	
	Ans: (1)				
67.	than the for	ward reaction rate	e constant by a	reaction rate constant if factor of 2500 , at 10°	000 K
	(1) 0.033		(2) 0.021		
	(3) 83.1		(4) 2.077×1	05	
	Ans: (1)				
68.	The ratio of the wavelengths of the light absorbed by a Hydrogen atom when is undergoes $n = 2 \rightarrow n = 3$ and $n = 4 \rightarrow n = 6$ transitions, respectively, is				vhen it
	$(1)\frac{1}{9}$	(2) $\frac{1}{4}$	(3) $\frac{1}{36}$	$(4)\frac{1}{16}$	
	Ans: (2)				
69.		onductivity (Λ_m) or m^2 mol ⁻¹ , its extent		solution of a monobasic ciation will be	weak
	[Assume Λ_+° =	: 349.6 S cm ² mol ⁻¹	and $\Lambda^{\circ}_{-} = 50.4 \text{ S}$	$m^2 \text{ mol}^{-1}$.	
	(1) 0.225	(2) 0.215	(3) 0.115	(4) 0.125	
	Ans: (1)				
70.	pressure of 70	0 torr. The vapour	pressures of pur	te a solution having a vare X and Y are 63 torr at	

solution?

(1) The solution is ideal.

(2) The solution has volume greater than the sum of individual volumes.

(3) The solution shows positive deviation.

(4) The solution shows negative deviation.

Ans: (4)

71. Among the following, choose the ones with equal number of atoms.

A. 212 g of Na_2CO_3 (s) [molar mass = 106 g]

B. 248 g of $Na_20(s)$ [molar mass = 62 g]

C. 240 g of NaOH (s) [molar mass = 40 g]

- D. 12 g of $H_2(g)$ [molar mass = 2 g]
- E. 220 g of $CO_2(g)$ [molar mass = 44 g]

Choose the correct answer from the options given below:

(1) B, C, and D only

(2) B, D, and E only

(3) A, B, and C only

(4) A, B, and D only

Ans: (4)

- 72. Which of the following are paramagnetic?
 - A. [NiCl₄]²
 - B. Ni(CO)₄
 - C. $[Ni(CN)_4]^2$
 - D. $[Ni(H_2O)_6]^{2+}$
 - E. $Ni(PPh_3)_4$

Choose the correct answer from the options given below:

(1) A and D only

(2) A, D and E only

(3) A and C only

(4) B and E only

Ans: (1)

- 73. If the half-life $(t_{1/2})$ for a first order reaction is 1 minute, then the time required for 99.9% completion of the reaction is closest to:
 - (1) 5 minutes

(2) 10 minutes

(3) 2 minutes

(4) 4 minutes

Ans: (2)

74. Energy and radius of first Bohr orbit of He⁺and Li^{2+} are [Given $R_H = 2.18i \times 10^{-18}$ J, $a_0 = 52.9$ pm]

(1)
$$E_n(Li^{2+}) = 19.62 \times 10^{-16} \text{ J; } r_n(Li^{2+}) = 17.6 \text{pm}$$

 $E_n(He^+) = 8.72 \times 10^{-16} \text{ J; } r_n(He^+) = 26.4 \text{pm}$

(2)
$$E_n(Li^{2+}) = -8.72 \times 10^{-16} \text{ J}; r_n(Li^{2+}) = 17.6 \text{pm}$$

 $E_n(He^+) = -19.62 \times 10^{-16}; r_n(He^+) = 17.6 \text{pm}$

(3)
$$E_n(Li^{2+}) = 4819.62 \times 10^{-18} \text{ J}; r_n(Li^{2+}) = 17.6 \text{pm}$$

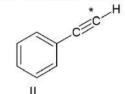
 $E_n(He^+) = 8.8.72 \times 10^{-18} \text{ J}; r_n(He^+) = 26.4 \text{pm}$

(4)
$$E_n(Li^{2+}) = -8.72 \times 10^{-18} \text{ J}; r_n(Li^{2+}) = 26.4 \text{pm}$$

 $E_n(He^+) = -19.62 \times 10^{-1} \text{k}; r_n(He^+) = 17.6 \text{pm}$

75. Among the given compounds I-III, the correct order of bond dissociation energy of C – H bond marked with * is:







- (1) III > II > I
- (3) II > I > III

- (2) II > III > I
- (4) I > II > III

Ans: (3)

- 76. Dalton's Atomic theory could not explain which of the following?
 - (1) Law of multiple proportion
- (2) Law of gaseous volume
- (3) Law of conservation of mass
- (4) Law of constant proportion

Ans: (2)

- 77. Identify the correct orders against the property mentioned
 - A. $H_2O > NH_3 > CHCl_3$ dipole moment
 - B. $XeF_4 > XeO_3 > XeF_2$ number of lone pairs on central atom
 - C. 0 H > C H > N 0 bond length
 - D. $N_2 > 0_2 > H_2$ bond enthalpy

Choose the correct answer from the options given below:

(1) A, C only

(2) B, C only

(3) A, D only

(4) B, D only

Ans: (3)

78. Match List I with List II.

	List I (Name of Vitamin)		List II (Deficiency disease)
A.	Vitamin B ₁₂	I.	Cheilosis
B.	Vitamin D	II.	Convulsions
C.	Vitamin B ₂	III.	Rickets
D.	Vitamin B ₆	IV.	Pernicious anaemia

Choose the correct answer from the options given below:

(1) A-II, B-III, C-I, D-IV

(2) A-IV, B-III, C-II, D-I

(3) A-I, B-III, C-II, D-IV

(4) A-IV, B-III, C-I, D-II

Ans: (4)

79. The correct order of decreasing basic strength of the given amines is:

(1) N-ethylethanamine > ethanamine > N -methylaniline > benzenamine

(2) benzenamine > ethanamine > N -methylaniline > N-ethylethanamine

(3) -methylaniline > benzenamine > ethanamine > N-ethylethanamine

(4) N-ethylethanamine > ethanamine > benzenamine > N-methylaniline

Ans: (1)

80. The correct order of the wavelength of light absorbed by the following complexes is,

A. $[Co(NH_3)_6]^{3+}$

B. $[Co(CN)_6]^{3-}$

C. $[Cu(H_2O)_4]^{2+}$

D. $[Ti(H_2O)_6]^{3+}$

Choose the correct answer from the options given below:

(1) C < D < A < B

(2) C < A < D < B

(3) B < D < A < C

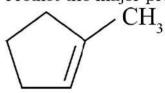
(4) B < A < D < C

Ans: (4)

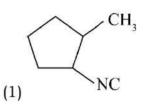
81. Which one of the following compounds **does not** decolourize bromine water?

$$(2)$$
 \sim NH₂

82. Predict the major product 'P' in the following sequence of reactions -



- i) HBr, benzoyl peroxide
- ii) KCN iii)Na (Hg)/C,H,OH (Major)



$$CH_3$$
 CH_2NH_2

Ans: (3)

83. Match List I with List II

List-I (Mixture)			List-I (Method of Separation)	
Α.	CHCl ₃ + C ₆ H ₅ NH ₂	I.	Distillation under reduced pressure	
В.	Crude oils in petroleum industry	II.	Steam distillation	
C.	Glycerol from spent-lye	III.	Fractional distillation	
D.	Aniline - water	IV.	Simple distillation	

Choose the correct answer from the options given below:

- (1) A-III, B-IV, C-I, D-II
- (2) A-III, B-IV, C-II, D-I
- (3) A-IV, B-III, C-I, D-II
- (4) A-IV, B-IH, C-H, D-I

- 84. Which among the following electronic configurations belong to main group elements?
 - A. [Ne]3s1
 - B. [Ar]3d³4s²
 - C. [Kr]4d¹⁰5s²5p⁵
 - D. [Ar]3d104s1
 - E. $[Rn]5f^{0}6d^{2}7s^{2}$

Choose the **correct** answer from the option given below:

(1) D and E only

(2) A, C and D only

(3) B and E only

(4) A and C only

Ans: (4)

- 85. Which one of the following compounds can exist as cis-trans isomers?
 - (1)1,1-Dimethylcyclopropane
 - (2)1,2-Dimethylcyclohexane
 - (3) Pent-1-ene
 - (4) 2-Methylhex-2-ene

Ans: (2)

86. Phosphoric acid ionizes in three steps with their ionization constant values

Ka₁, Ka₂ and Ka₃, respectively, while K is the overall ionization constant. Which of the following statements are true?

- A. $\log K = \log Ka_1 + \log Ka_2 + \log Ka_3$
- **B.** H₃PO₄ is a stronger acid than H₂PO₄⁻ and HPO₄²⁻
- C. $Ka_1 > Ka_2 > Ka_3$
- **D.** $Ka_1 = (Ka_3 + Ka_2)/2$

Choose the correct answer from the options given below:

(1) B, C and D only

(2) A, B and C only

(3) A and B only

(4) A and C only

Ans: (2)

87. Match List - I with List - II

List I (Ion)		Lis	List II (Group Number in Cation Analysis)	
A.	Co2+	I.	Group-I	
В.	Mg ²⁺	II.	Group-III	
C.	Pb ²⁺	III.	Group-IV	
D.	Al³+	IV.	Group-VI	

Choose the **correct** answer from the options given below:

- (1) A-III, B-II, C-IV, D-I
- (2) A-III, B-II, C-I, D-IV
- (3) A-III, B-IV, C-II, D-I
- (4) A-III, B-IV, C-I, D-II

Ans: (4)

88. Higher yield of NO in

 $N_2(g) + O_2(g) \rightleftharpoons 2NO(g)$ can be obtained at $[\Delta H \text{ of the reaction} = +180.7 \text{ kJ mol}^{-1}]$

- A. higher temperature
- B. lower temperature
- C. higher concentration of N₂
- D. higher concentration of O₂

Choose the **correct** answer from the options given below:

(1) B, C, D only

(2) A, C, D only

(3) A, D only

(4) B, C only

Ans: (2)

89. Given below are two statements:

Statement I: Benzenediazonium salt is prepared by the reaction of aniline with nitrous acid at 273–278 K. It decomposes easily in the dry state.

Statement II: Insertion of iodine into the benzene ring is difficult and hence iodobenzene is prepared through the reaction of benzenediazonium salt with KI.

In the light of the above statements, choose the **most appropriate** answer from the options given below:

- (1) Statement I is correct but Statement II is incorrect
- (2) Statement I is incorrect but Statement II is correct
- (3) Both Statement I and Statement II are correct
- (4) Both Statement I and Statement II are incorrect

Ans: (3)

90. The major product of the following reaction is:

Ans: (4)