Test Booklet No.

Subject: CHEMISTRY

Code : 306 E Medium : English

(Do not open this Test Booklet until you are asked to do so)



Test Booklet Code

	Time Allowed : 60 minutes	Maximum Marks : 200	Total Questions : 50	Number of questions to be answered : 40
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Kindly read the Instructions given on this Page and Back Page carefully before attempting this Question Paper.

Important Instructions for the Candidates :

- 1. This Test Booklet contains **50** questions printed in English. Out of these, the candidate is required to answer any **40** questions. If a candidate answers more than 40 questions, the first 40 answered questions will be considered for evaluation.
- 2. When you are given the OMR Answer Sheet, fill in your particulars on it carefully with blue/black ball point pen only.
- 3. Use only Blue/Black Ball Point Pen for marking responses.
- 4. The CODE for this Test Booklet is C. Make sure that the CODE printed on the OMR Answer Sheet is the same as that on this Test Booklet. Also ensure that your Test Booklet No. and OMR Answer Sheet No. are exactly the same. In case of discrepancy, the candidate should immediately report the matter to the Invigilator for replacement of both the Test Booklet and the OMR Answer Sheet. No claim in this regard will be entertained after five minutes from the start of the examination.
- 5. Before attempting the question paper kindly check that this Test Booklet has total **16** pages and OMR Answer Sheet consists of one sheet. At the start of the examination within first five minutes, candidates are advised to ensure that all pages of Test Booklet and OMR Answer Sheet are properly printed and they are not damaged in any manner.
- 6. Each question has four answer options. Out of these four options choose the **MOST APPROPRIATE OPTION** and darken/blacken the corresponding circle on the OMR Answer Sheet with a Blue/Black Ball Point Pen.
- 7. Five (5) marks will be given for each correct answer. One (1) mark will be deducted for each incorrect answer. If more than one circle is found darkened/blackened for a question, then it will be considered as an incorrect answer. Unanswered questions will be given no mark.
 P.T.O.

Name of the Candidate (in Capital Letters):	
Application Number (in figures) :	
Roll Number (in figures):	
Centre of Examination (in Capital Letters) :	
Candidate's Signature : I	Invigilator's Signature :
Facsimile signature stamp of Centre Superintendent : _	

- 1. Although chlorine is an electron withdrawing group, yet it is ortho- and para-directing in electrophilic aromatic substitution reaction because
 - (A) Chlorine withdraws electrons through inductive effect.
 - (B) Chlorine destabilises the intermediate carbocation formed during electrophilic substitution.
 - (C) Chlorine accepts electrons through resonance.
 - (D) Chlorine releases electrons through resonance.

Choose the correct answer from the options given below:

- (1) (A), (B) and (D) only
- (2) (A), (B) and (C) only
- (3) (A), (C) and (D) only
- (4) (B), (C) and (D) only
- 2. In Etard reaction, the final product is
 - (1) Aromatic aldehyde
 - (2) Aromatic chloride
 - (3) Aromatic amine
 - (4) Aromatic alcohol
- 3. Aniline does not undergo Friedel-Crafts reaction because
 - (A) It forms salt with the Lewis acid catalyst, AlCl₃.
 - (B) Nitrogen of aniline acquires negative charge.
 - (C) Nitrogen of aniline acquires positive charge.
 - (D) Nitrogen acts as a strong deactivating group in the further reaction.

Choose the correct answer from the options given below:

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

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4. Match **List-I** with **List-II**:

	List-I		List-II
(A)	Amino acids linked in a specific	(I)	Primary structure of proteins
	sequence		
(B)	Regular folding of a specific sequence	(II)	Secondary structure of proteins
	of amino acids due to H-bonding		
(C)	Fibrous proteins	(III)	Quaternary structure of proteins
(D)	Spatial arrangement of two or more	(IV)	Tertiary structure of proteins
	polypeptide chains		

Choose the correct answer from the options given below:

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

5. Match List-I with List-II:

	List-I		List-II
(A)	Tollen's reagent	(I)	Rochelle salt
(B)	Jones reagent	(II)	Conc. HCl and ZnCl ₂
(C)	Lucas reagent	(III)	Ammoniacal silver nitrate
(D)	Fehling solution	(IV)	Chromium trioxide-sulphuric acid

Choose the correct answer from the options given below:

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

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

306 E/C (4)

6. Match **List-I** with **List-II**:

	List-I		List-II
(A)	Swarts Reaction	(I)	$C_6H_5NH_2 + NaNO_2 + HX + Cu_2X_2 \longrightarrow C_6H_5X + N_2$
(B)	Finkelstein reaction	(II)	$2RX + 2Na \longrightarrow R - R + 2NaX$
(C)	Sandmeyer's reaction	(III)	$RX + AgF \longrightarrow R - F + AgX$
(D)	Wurtz reaction	(IV)	$RX + NaI \longrightarrow R - I + NaX$

Choose the correct answer from the options given below:

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

7. Match List-I with List-II:

	List-I		List-II
	(Biomolecule)		(Function/Diseases)
(A)	Vitamin A	(I)	Menstrual cycle
(B)	Thiamine	(II)	Xerophthalmia
(C)	Glucocorticoids	(III)	Beri-Beri
(D)	Estradiol	(IV)	Addison's disease

Choose the correct answer from the options given below:

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

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

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

8. In the following table, match the reactants given in **List-I** with the correct product in **List-II** as per the reaction of hydration of alkene under acidic condition.

	List-I	List-II
	(Reactants)	(Products)
(A)		(I) HO
(B)		(II)
(C)		(III)
(D)		(IV)

Choose the correct answer from the options given below:

- (1) (A) (I), (B) (II), (C) (III), (D) (IV)
- (2) (A) (I), (B) (III), (C) (II), (D) (IV)
- (3) (A) (II), (B) (I), (C) (IV), (D) (III)
- (4) (A) (III), (B) (IV), (C) (I), (D) (II)
- **9.** Which among the following is *not* an Analgesic?
 - (1) Morphene

(2) Heroin

(3) Codeine

- (4) Ranitidine
- 10. The increasing order of acidity of the following compounds based on pKa values is
 - (A) BrCH₂COOH

(B) ClCH₂COOH

(C) FCH₂COOH

(D) HCOOH

Choose the correct answer from the options given below :

(1) (D) < (A) < (B) < (C)

(2) (A) < (D) < (C) < (B)

(3) (B) < (A) < (D) < (C)

(4) (C) < (B) < (D) < (A)

11. For S_N^2 reaction, the increasing order of the reactivity of the following alkyl halides is:

- (A) CH₃CH₂CH₂CH₂Br
- (B) CH₃CH₂CH(Br)CH₃
- (C) (CH₃)₃CBr
- (D) (CH₃)₂CHCH₂Br

Choose the correct answer from the options given below:

(1) (A) < (B) < (C) < (D)

(2) (A) < (C) < (B) < (D)

(3) (B) < (A) < (D) < (C)

(4) (C) < (B) < (D) < (A)

Read the following passage and answer the next five questions based on it.

Battery or cell converts chemical energy of the redox reaction to electrical energy. In fuel cell (a galvanic cell), the chemical energy of combustion of fuels like H_2 , ethanol, etc. are directly converted to electrical energy. In a fuel cell, H_2 and O_2 react to produce electricity, where H_2 gas is oxidised at anode and oxygen is reduced at cathode and the reactions involved are

Anode reaction : $H_2 + 2OH^- \rightarrow 2H_2O + 2e^-$

Cathode reaction : $O_2 + 2H_2O + 4e^- \rightarrow 4OH^-$

67.2 L of H₂ at STP reacts in 15 minutes.

12. The number of moles of hydrogen oxidised is:

- (1) 0.33 moles
- (2) 33.3 moles
- (3) 3.0 moles
- (4) 1.33 moles

13. The number of moles of electrons produced in the oxidation of 67.2 L of H_2 at STP is:

- (1) 2 moles
- (2) 4 moles
- (3) 1 mole
- (4) 6 moles

14. The quantity of electricity produced in the oxidation of 67.2 L of H_2 at STP is :

- (1) 96500 C
- (2) 579000 C
- (3) 193000 C
- (4) 48250 C

15. If the entire current produced is used for the electrodeposition of Silver (at.wt. 108 g mol⁻¹) from Silver (I) solution, the amount of silver deposited will be:

- (1) 324 g
- (2) 648 g
- (3) 108 g
- (4) 216 g

306 1	E/C								(7)						
16.	The	sour	ce of	electri	ical en	ergy (on the	Apoll	o moo	on fligh	nt was:					
	(1)	Lead	d stor	age ba	attery					(2)	A generat	or set				
	(3)	Ni-C	Cd ce	lls						(4)	H ₂ -O ₂ Fu	el cell				
Read	the	follov	ving	passa	ge and	l ansv	ver tł	ie nex	t five	questi	ons based	on it.				
	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn						
	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd						
	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg						
	In a	any tr	ansit	ion se	eries, a	s we	mov	e from	ı left	to righ	nt the d-or	bitals are	progr	essivel	y filled	and their
	prop	pertie	s vary	y acco	rdingly	у.										
	Ce	Pr 1	Nd I	Pm S	Sm Eu	Gd	Tb	Dy 1	Но Е	r Tm	Yb Lu					
	Th	Pa	U N	Np P	u Am	Cm	n Bk	Cf	Es F	m Md	l No Lr					
	The	abov	e are	the tv	vo seri	es of	f-bloc	k elen	nents	in whic	ch the chem	nical prop	erties	won't c	change r	nuch. The
										•	are artificia	ally synth	esized	in lab	oratories	s and thus
	muc	ch is r	ot kr	iown a	about t	heir c	hemi	cal pro	pertie	S.						
17.	Ider	ntify t	he <i>in</i>	corre	ct state	ment.										
	(1)	Seco	ond ic	onisati	ion ent	halpy	of A	g is gr	eater t	han se	cond ionisa	tion enth	alpy of	f Pd.		
	(2)	Zr a	nd H	f share	es almo	ost ide	entica	l nucle	ear pro	operties	S.					
	(3)	Mel	ting p	oint o	of Mn i	s low	er tha	n that	of Cr	•						
	(4)	Inte	rstitia	ıl com	pound	s are 1	non-s	toichic	metri	c and r	either ioni	e nor cov	alent ii	n nature	2 .	
18.	Whi	ich of	the f	ollow	ing is t	he co	rrect	order (of sec	ond ior	nisation ent	halpy?				
	(1)	V >	Cr>	Mn	((2) V	V < C	r < Mr	1	(3)	V < Cr > 1	Mn	(4)	$V > C_1$	$r \le Mn$	
19.	Whi	ich of	the f	ollow	ing pai	r of c	ompo	unds e	exhibi	ts same	e colour in	aqueous s	solutio	n ?		
	(1)	FeC	l ₂ , Cı	uCl ₂						(2)	VOCl ₂ , C	uCl ₂				
	(3)	VO	Cl ₂ , F	FeCl ₂						(4)	VOCl ₂ , M	InCl ₂				
20.	Whi	ich m	etal h	as the	highe	st oxi	dation	ı state	in the	first ro	ow transitio	n series ?)			
	(1)	Cr			_ ((2) F	⁷ e			(3)	Mn		(4)	V		

(1) 4f orbitals are more diffused than the 5f orbitals.

Why do the actinoids exhibit higher number of oxidation states than lanthanoids?

21.

- Energy difference between 5f and 6d is more with respect to the energy difference between 4f and 5d.
- (4) Actinoids are more reactive in nature than the lanthanoids.

- 22. Camphor in nitrogen gas is a type of solution
 - (1) Gas Gas

(2) Solid – Gas

(3) Liquid – Gas

- (4) Solid Liquid
- 23. Identify the correct order of organic compounds in the following chemical reaction:

$$\underline{?} + Mg \xrightarrow{Dry Ether} \underline{?} \xrightarrow{H_2O} \underline{?} \xrightarrow{Cl_2, \triangle} \underline{?}$$

- (A) CH₃MgBr
- (B) CH₃Br
- (C) CH₃Cl
- (D) CH₄

Choose the correct answer from the options given below:

(1) (B), (A), (D), (C)

(2) (A), (C), (B), (D)

(3) (B), (A), (C), (D)

- (4) (C), (B), (D), (A)
- **24.** Consider the following statements regarding osmotic pressure :
 - (A) Molar mass of a protein can be determined using osmotic pressure method.
 - (B) The osmotic pressure is proportional to the molarity.
 - (C) Reverse osmosis occurs when a pressure larger than osmotic pressure is applied to the concentrated solution side.
 - (D) Edema occurs due to retention of water in tissue cells as a result of osmosis.

Choose the correct statements with reference to osmotic pressure :

(1) (A), (B) and (D) only

(2) (A), (B) and (C) only

(3) (A), (B), (C) and (D)

- (4) (B), (C) and (D) only
- 25. Vapour pressures of pure liquids 'A' and 'D' at 50°C are 500 mm Hg and 800 mm Hg respectively. The binary solution of 'A' and 'D' boils at 50°C and 700 mm Hg pressure. The mole percentage of 'D' in the solution is:
 - (1) 33.33 mole percent

(2) 66.67 mole percent

(3) 25.75 mole percent

(4) 75.25 mole percent

26. For the following reaction :

$$2A_2(g) + \frac{1}{4}X(g) \rightarrow 2A_2X(g)$$

volume is increased to double its value by decreasing the pressure on it. If the reaction is first order with respect to X and second order with respect to A_2 , the rate of reaction will:

- (1) Decrease by eight times of its initial value
- (2) Increase by eight times of its initial value
- (3) Increase by four times of its initial value
- (4) Remain unchanged
- 27. The total number of sigma bonds present in P_4O_{10} are :
 - (1) 6

(2) 7

(3) 16

- (4) 17
- 28. In the electrolysis of alumina to obtain Aluminium metal, the cryolite is added mainly to
 - (1) lower the melting point of alumina.
 - (2) dissolve the alumina in the molten cryolite.
 - (3) remove the impurities of alumina.
 - (4) increase the electrical conductivity.
- **29.** Identify the order of reaction if its rate constant is $k = 2 \times 10^{-2} \text{ s}^{-1}$.
 - (1) Zero order
 - (2) First order
 - (3) Second order
 - (4) Half order
- **30.** For a complex reaction, the order of reaction is equal to
 - (1) Sum of stoichiometric coefficients in balanced chemical reaction
 - (2) The molecularity of overall reaction
 - (3) Order of fastest step of the reaction
 - (4) The molecularity of slowest step of reaction

31. A molecule X associates in a given solvent as per the following equation :

$$X \rightleftharpoons (X)_n$$

For a given concentration of X, the van't Hoff factor was found to be 0.80 and the fraction of associated molecules was 0.3. The correct value of 'n' is:

(1) 2

(2) 3

(3) 1

(4) 5

32. The oxidation number of Co in complex $[Co(H_2NCH_2CH_2NH_2)_3]_2(SO_4)_3$ is

(1) 3

(2) 4

(3) 2

(4) 5

33. The correct structure of dipeptide, Gly-Ala (glycyl alanine) is

- (1) $H_2N CH_2 CO NH CH(CH_3) COOH$
- (2) $HOOC CH_2 NH CO CH(CH_3) NH_2$
- (3) $HOOC CH(CH_3) NH CO CH_2 NH_2$
- (4) $H_2N CH(CH_3) CO NH CH_2 COOH$

34. The total number of ions produced from the complex $[Cr(NH_3)_6]Cl_3$ in aqueous solution will be ______.

(1) 2

(2) 3

(3) 4

(4) 5

35. Arrange the following in decreasing order of number of molecules contained in :

- (A) $16 \text{ g of } O_2$
- (B) 16 g of CO_2
- (C) 16 g of CO
- (D) 16 g of H_2

Choose the correct order from the options given below:

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

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36.	The	Cu metal crystallises into fcc lattice with a uni	t cell	edge length of 361 pm. The radius of Cu atom is :
	(1)	127 pm	(2)	181 pm
	(3)	157 pm	(4)	108 pm
37.		75% of a first order reaction gets completed reaction is	l in	32 minutes, time taken for 50% completion of
	(1)	16 minutes	(2)	78 minutes
	(3)	8 minutes	(4)	4 minutes
38.	Wh	ich of the following compounds will be repelled	l whe	en placed in an external magnetic field?
	(1)	Na ₂ [CuCl ₄]	(2)	$Na_2[CdCl_4]$
	(3)	$K_4[Fe(CN)_6]$	(4)	$K_3[Fe(CN)_6]$
39.	The	spin only magnetic moment of Hexacyanidoma	angai	nate(II) ion isBM.
	(1)	5.90	(2)	1.73
	(3)	4.90	(4)	3.87
40.	The	correct order of increasing boiling points of the	e foll	owing compounds is:
	Pen	tan-1-ol, n-Butane, Pentanal, Ethoxyethane		
	(1)	Ethoxyethane, Pentanal, n-Butane, Pentan-1-o	1	
	(2)	Pentanal, n-Butane, Ethoxyethane, Pentan-1-o	1	
	(3)	n-Butane, Pentanal, Ethoxyethane, Pentan-1-o	1	
	(4)	n-Butane, Ethoxyethane, Pentanal, Pentan-1-o	1	
41.	In tl	he following reaction, identify the product D.		
		$C_6H_5 - OH \xrightarrow{Zn dust} A \xrightarrow{CH_3Cl + anhy}$. AlC	$\stackrel{\text{ll}}{\longrightarrow}$ B
			K	$_2$ Cr ₂ O ₇ + H ₂ SO ₄ \rightarrow C $\xrightarrow{\text{H}_2\text{SO}_4 + \text{HNO}_3}$ D
	(1)	o-Nitrobenzoic acid		
	(2)	p-Nitrobenzoic acid		

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(3) o,p-Dinitrobenzoic acid

42. The gold number range of some of the lyophilic colloids is given below:

A: 0.005 - 0.01, B: 0.15 - 0.25, C: 0.04 - 1.0 and D: 15 - 25.

Which among these can be used as a better protective colloid?

(1) A

(2) B

(3) C

(4) D

43. Reaction of aniline with conc. HNO₃ and conc. H₂SO₄ at 298 K will produce 47% of

- (1) p-Nitroaniline
- (2) o-Nitroaniline
- (3) m-Nitroaniline
- (4) 2,4-Dinitroaniline

44. What will be increasing order of basic strength of the following compounds?

$$C_2H_5NH_2$$
, $(C_2H_5)_2NH$, $(C_2H_5)_3N$, $C_6H_5NH_2$

- (1) $C_2H_5NH_2 < (C_2H_5)_2NH < (C_2H_5)_3N < C_6H_5NH_2$
- (2) $C_6H_5NH_2 < C_2H_5NH_2 < (C_2H_5)_3N < (C_2H_5)_2NH$
- (3) $(C_2H_5)_3N < (C_2H_5)_2NH < C_6H_5NH_2 < C_2H_5NH_2$
- (4) $(C_2H_5)_2NH < (C_2H_5)_3N < C_2H_5NH_2 < C_6H_5NH_2$

45. Which of the following compounds will give Hell-Volhard-Zelinsky reaction?

(1) $R - CH_2 - COOH$

(2) $R_3C - CHO$

(3) R_2CO

(4) H - COOH

46. Arrange the following acids in increasing order of their acidic strengths :

HCOOH, FCH2COOH, NO2CH2COOH, CICH2COOH

- (1) HCOOH < FCH₂COOH < NO₂CH₂COOH < CICH₂COOH
- (2) $HCOOH < NO_2CH_2COOH < CICH_2COOH < FCH_2COOH$
- (3) $NO_2CH_2COOH < HCOOH < CICH_2COOH < FCH_2COOH$
- (4) $HCOOH < CICH_2COOH < FCH_2COOH < NO_2CH_2COOH$

306 E/C	(13))
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47. In the following compounds, what is the increasing order of their reactivity towards nucleophilic addition reactions?

Benzaldehyde, p-Tolualdehyde, p-Nitrobenzaldehyde, Acetophenone

- (1) Benzaldehyde < p-Tolualdehyde < p-Nitrobenzaldehyde < Acetophenone
- (2) Acetophenone < Benzaldehyde < p-Tolualdehyde < p-Nitrobenzaldehyde
- (3) Acetophenone < p-Tolualdehyde < Benzaldehyde < p-Nitrobenzaldehyde
- (4) Benzaldehyde < Acetophenone < p-Tolualdehyde < p-Nitrobenzaldehyde

48. The Gatterman-Koch reaction is used in the industrial preparation of benzaldehyde. The electrophile involved in this reaction is

(1) CO^{+}

(2) $HCl + CO_2 + anhydrous AlCl_3$

(3) HCO⁺

(4) CO + anhydrous AlCl₃

- **49.** Formaldehyde undergoes Cannizzaro reaction because
 - (A) It has alpha-hydrogen atom.
 - (B) It does not have alpha-hydrogen atom.
 - (C) It does not undergo self-oxidation and reduction on heating with concentrated alkali.
 - (D) It undergo self-oxidation and reduction on heating with concentrated alkali.

Choose the correct answer from the options given below:

(1) (B) and (D) only

(2) (A) and (C) only

(3) (B) and (C) only

(4) (A) and (D) only

50. In the reaction, $(CH_3)_3C - O - CH_3 + HI \rightarrow Products$

CH₃OH and (CH₃)₃CI are the products and not CH₃I and (CH₃)₃C – OH. It is because,

- (A) in step 2 of the reaction the departure of leaving group $(HO-CH_3)$ creates less stable carbocation.
- (B) in step 2 of the reaction the departure of leaving group (HO CH₃) creates more stable carbocation.
- (C) the reaction follows $S_N 1$ mechanism.
- (D) the reaction follows S_N^2 mechanism.

Choose the correct answer from the options given below:

(1) (B) and (D) only

(2) (B) and (C) only

(3) (A) and (D) only

(4) (A) and (C) only

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306 E/C

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(15)

306 E/C (16)

Read carefully the following instructions:

- 8. No candidate will be allowed to leave the OMR Answer Sheet blank. If any OMR Answer Sheet is found blank, it shall be crossed by the Invigilator with his/her signature, mentioning "Cancelled" on it.
- 9. Do not tear or fold any page of the Test Booklet and OMR Answer Sheet.
- 10. Candidates are advised to ensure that they fill the correct particulars on the OMR Answer Sheet, i.e., Application No., Roll No., Test Booklet No., Name, Mother's Name, Father's Name and Signature.
- 11. Rough work is to be done in the space provided for this purpose in the Test Booklet only.
- The answers will be evaluated through electronic scanning process. Incomplete or incorrect entries may render the OMR Answer Sheet invalid.
- 13. Candidates are advised not to fold or make any stray marks on the OMR Answer Sheet. Use of Eraser, Nail, Blade, White Fluid/Whitener, etc., to smudge, scratch or damage in any manner the OMR Answer Sheet during examination is strictly prohibited. Candidature and OMR Answer Sheet of candidates using Eraser, Nail, Blade or White Fluid/Whitener to smudge, scratch or damage in any manner shall be cancelled.
- 14. There will be one copy of OMR Answer Sheet i.e., the Original Copy. After the examination is over, the candidate shall hand over the OMR Answer Sheet to the Invigilator. The candidate can take away the Test Booklet after the examination is over. If the candidate does not hand over the OMR Answer Sheet to the Invigilator and goes away with the OMR Answer Sheet, his/her candidature shall be cancelled and criminal proceedings shall also be initiated against him/her.
- 15. Candidates are advised strictly not to carry handkerchief, any mobile phone, any type of watch, belt or wear ornaments like ring, chain, ear-ring, etc., electronic or communication device, pen, pencil, eraser, sharpener and correction fluid to the Examination Centre. If any candidate is found possessing any such item, he/she will not be allowed to enter the examination centre. Possession of a mobile phone or any other aiding material as mentioned above by the candidate in the examination room will be treated as a serious violation and it may lead to cancellation of the candidature and debarring him/her from future examinations.
- 16. If a candidate violates any instructions or shows any indiscipline or misbehaviour, appropriate action will be taken including cancellation of candidature and debarring from future examinations.
- 17. Use of electronic/manual calculator is **not** allowed.

NATIONAL TESTING AGENCY CUET (UG) 2024 : Final Answer Keys

Exam Date: 15.05.2024 Subject: 306 - Chemistry (English)

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Book	: A	Book : A		Book :	В	Book : B		Book :	Book : C		С	Book	: D	Book : D		
1	3	46	1	1	2	46	2	1	1	46	4	1	1	46	1	
2	2	47	3	2	1	47	3	2	1	47	3	2	3	47	3	
3	2	48	1	3	3	48	2	3	3	48	3	3	4	48	1	
4	1	49	2	4	2	49	3	4	3	49	1	4	4	49	4	
5	1	50	4	5	1	50	2	5	1	50	2	5	3	50	4	
6	1		-	6	3		_	6	4		_	6	4		-	
7	1			7	1			7	4			7	2			
8	2,3			8	2			8	3			8	2			
9	2			9	4			9	4			9	4			
10	4			10	2			10	1			10	2			
11	4			11	1			11	4			11	3			
12	1			12	1			12	3			12	2			
13	3			13	3			13	4			13	3			
14				14	2			14	2			14				
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15	1			15	1			15	2			15 10	2			
16	4			16	1			16	4			16	1			
17	3			17	2,3			17	2			17	3			
18	3			18	2			18	3			18	2			
19	1			19	4			19	2			19	1			
20	2			20	4			20	3			20	3			
21	3			21	1			21	2			21	1			
22	1			22	3			22	2			22	2			
23	1			23	2			23	1			23	4			
24	3			24	1			24	3			24	2			
25	1			25	4			25	2			25	1			
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28	3			28	1			28	1			28	2			
29	4			29	2			29	2			29	1			
30	1			30	3			30	4			30	1			
31	4			31	1			31	2			31	2,3			
32	3			32	1			32	1			32	2			
33	4			33	3			33	1			33	4			
34	2			34	1			34	3			34	4			
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38	3			38	4			38	2,3			38	1			
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42	2			42	4			42	1			42	1			
43	1			43	2			43	3			43	2			
44	3			44	2			44	2			44	3			
45	2			45	4			45	1			45	1			