SEAL

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Series :



Question Booklet No.

320021

DT/08/24

PAPER—II

CHEMISTRY

Candidate's Signature

Maximum Marks: 100

Invigilator's Signature

Time: 2 Hours

ROLL NO.

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/19-a



- **1.** Which one of the following is a set of isoelectronic species?
 - [A] N_2 , H_2S , CO
 - $[\mathrm{B}] \quad \mathrm{N_2, CO_2, CN}^-$
 - [C] Ca, Mg, Cl
 - [D] N₂, CO, CN
- **2.** $_{17}\mathrm{Cl^{35}}$ and $_{17}\mathrm{Cl^{37}}$ differ from each other in number of
 - [A] electrons
 - [B] protons
 - [C] nucleons
 - [D] mesons
- **3.** The quantum number that is not obtained from the solution of Schrodinger's wave equation is
 - [A] principal quantum number
 - [B] azimuthal quantum number
 - [C] magnetic quantum number
 - [D] spin quantum number
- **4.** An orbital with quantum numbers n = 4, l = 3, m = 0 and $s = -\frac{1}{2}$ is called
 - [A] 4s orbital
 - [B] 4p orbital
 - [C] 4d orbital
 - [D] 4f orbital

- **5.** The radius of hydrogen atom in the ground state is 0.53 Å. The radius of Li²⁺ ion (atomic number = 3) in a similar state is
 - [A] 0.17 Å
 - [B] 0.53 Å



- [C] 0.265 Å
- [D] 1.06 Å
- **6.** The outermost electronic configuration of the most electronegative element is
 - [A] ns^2np^3
 - [B] ns^2np^4
 - [C] ns^2np^5
 - [D] ns^2np^6
- **7.** The first ionization potentials of Na, Mg, Al and Si are in the order
 - [A] Na < Mg > Al < Si
 - [B] Na > Mg > Al > Si
 - [C] Na < Mg < Al > Si
 - [D] Na > Mg > Al < Si
- **8.** Which of the following has highest electron affinity?
 - [A] F
 - [B] C1
 - [C] Br
 - [D]]

- **9.** The general electronic configuration of transition elements is
 - [A] $ns^2 (n-1) d^{10}$
 - [B] $ns^{1-2}(n-1)d^{1-10}$
 - [C] ns^1
 - [D] ns^2np^5
- **10.** The shape and the type of hybridization about the central atom in $[I_3]^-$ are
 - [A] trigonal planar, sp^2
 - [B] pentagonal, sp^3d
 - [C] linear, sp^3d
 - [D] square pyramidal, d^2sp^3
- 11. The shape of sulphate ion is
 - [A] tetrahedral
 - [B] square planar
 - [C] trigonal bipyramidal
 - [D] hexagonal
- 12. Bond order is
 - [A] directly related to bond length
 - [B] inversely related to bond length
 - [C] inversely related to bond strength
 - [D] never fractional

- **13.** The first important theory of coordination compounds was put forward by
 - [A] Pauling
 - [B] Slater



- [C] Werner
- [D] Lewis
- **14.** The complex CoCl₃·5NH₃ in aqueous solution ionizes to give a total number of chloride ions is equal to
 - [A] 0
 - [B] 1
 - [C] 2
 - [D] 3
- **15.** The effective atomic number of iron in $[Fe(CN)_6]^{3-}$ is
 - [A] 34
 - [B] 35
 - [C] 36
 - [D] 37
- **16.** In the spectrochemical series, the magnitude of the crystal field splitting is maximum for which ion?
 - [A] C1-
 - [B] F
 - [C] NO₂
 - [D] CN-

- 17. The crystal field splitting energy for octahedral (Δ_o) and tetrahedral (Δ_t) complexes is related to
 - [A] $\Delta_t = \frac{4}{9} \Delta_o$
 - [B] $\Delta_t = \frac{1}{2}\Delta_o$
 - [C] $\Delta_o = 2\Delta_t$
 - [D] $\Delta_o = \frac{4}{9} \Delta_t$
- **18.** The weight of iron which will be converted into its oxide (Fe_3O_4) by the action of 18 g of steam will be (atomic weight of Fe = 56 u)
 - [A] 21 g
 - [B] 42 g
 - [C] 84 g
 - [D] 168 g
- 19. In the reaction,

$$2\operatorname{Na}_2\operatorname{S}_2\operatorname{O}_3 + \operatorname{I}_2 \longrightarrow \operatorname{Na}_2\operatorname{S}_4\operatorname{O}_6 + 2\operatorname{NaI}$$

the equivalent weight of $Na_2S_2O_3$ (mol. wt. = M) is equal to

- [A] M
- [B] M/2
- [C] M/3
- [D] M/4
- **20.** 5.6 liters of a gas at NTP is found to have a mass of 11 g. The molecular mass of the gas is
 - [A] 22
 - [B] 32
 - [C] 44
 - [D] 88



- **21.** The free energy change for a reversible reaction at equilibrium is
 - [A] zero
 - [B] small positive
 - [C] small negative
 - [D] large positive
- **22.** The solubility of ${\rm CO}_2$ gas in water increases with
 - [A] increase in temperature
 - [B] reduction of gas pressure above water
 - [C] increase in volume
 - [D] increase of gas pressure above water
- 23. For a hypothetical reaction

$$A(g) + B(g) \longrightarrow X(g) + Y(g)$$

occurring in a single step, the specific rate constants are 2.0×10^{-2} and 5.0×10^3 respectively for the forward and the backward reactions. The value of equilibrium constant is

- [A] 4.0×10^{-4}
- [B] 2.5×10^{-6}
- [C] 2.5×10^5
- [D] 4.0×10^{-6}
- **24.** In the chemical reaction of gaseous reactants and product

$$2SO_2 + O_2 \Longrightarrow 2SO_3$$

increasing total pressure leads to

- [A] increase in the amount of SO_3
- [B] increase in the partial pressure of O_2
- [C] increase in the partial pressure of SO_2
- [D] change in the equilibrium constant

25.	A so	lution	of	NH.	C1	is
-----	------	--------	----	-----	----	----

- [A] acidic
- [B] basic
- [C] neutral
- [D] amphoteric

26. Conjugate base of a strong acid is

- [A] a weak base
- [B] a strong base
- [C] a weak acid
- [D] neutral

27. The pH value of 0.01 M HCl is equal to

- [A] 2
- [B] 12
- [C] 4
- [D] 10

- [A] HCl
- [B] NH₄Cl
- [C] NaOH
- [D] NH₄OH

29. Ostwald's dilution law is applicable to

- [A] strong electrolytes
- [B] weak electrolytes



- [C] non-electrolytes
- [D] strong as well as weak electrolytes

30. One mole of N_2 and 3 moles of H_2 are mixed in 1.0 litre flask. If 50% N_2 is converted into ammonia by the reaction,

$$N_2(g) + 3H_2(g) = 2NH_3(g)$$

then the total number of moles of gas at equilibrium is

- [A] 1.5
- [B] 3.0
- [C] 4.5
- [D] 6.0

31. Seaweeds are an important source of

- [A] chlorine
- [B] bromine
- [C] iodine
- [D] zinc

32. In roasting, the ores are generally converted into

- [A] metals
- [B] metal oxide
- [C] hydrated metal oxides
- [D] None of the above

- **33.** The reducing agent used in thermite process is
 - [A] magnesium
 - [B] chromium
 - [C] aluminium
 - [D] iron
- **34.** Froth floatation process may be used to increase the concentration of the mineral in
 - [A] bauxite
 - [B] chalcopyrites
 - [C] haematite
 - [D] calamine
- 35. White phosphorus contains
 - [A] P2 molecules
 - [B] P4 molecules
 - [C] P5 molecules
 - [D] P6 molecules
- **36.** Which of the following gases would have the highest RMS velocity at 25 °C?
 - [A] Oxygen
 - [B] Carbon monoxide



- [C] Carbon dioxide
- [D] Sulphur dioxide

- **37.** If the absolute temperature of a gas is doubled and the pressure is reduced to one-half, the volume of the gas will
 - [A] be doubled
 - [B] remain unchanged
 - [C] increase four-fold
 - [D] be reduced to 1/4th
- **38.** The unit of the van der Waals constant a is
 - [A] atm L² mol⁻²
 - [B] atm L⁻² mol⁻²
 - [C] atm L mol⁻¹
 - [D] atm L-1 mol
- **39.** An ideal gas cannot be liquefied because
 - [A] its critical temperature is always above 0 °C
 - [B] it solidifies before becoming a liquid
 - [C] forces operative between its molecules are negligible
 - [D] its molecules are relatively smaller in size

40.	22.	w many moles of He gas occupy 4 litres at 30 °C and one cospheric pressure?	43.	Wit liqu	h rise in temperature, viscosity of a aid
				[A]	increases
	[A]	0.11		[B]	decreases
	[B]	0.90		[C]	remains constant
	[C]	1.11		[D]	may increase or decrease
	[D]	1.0	44.		ong the following which crystal will soft and have low melting point?
				[A]	Metallic
41.		e rate of diffusion of oxygen as appared with ozone will be		[B]	Covalent
				[C]	Ionic
	[A]	0.66 times		[D]	Molecular
	[B]	0.82 times	45.	Dui	ring evaporation of a liquid
	[C]	1.22 times		[A]	the temperature of the liquid rises
	[D]	1.5 times		[B]	the temperature of the liquid falls
				[C]	the temperature of the liquid unaffected
42.		nigher altitude the boiling point of er lowers because		[D]	None of the above
	[A]	atmospheric pressure is low	46.		kinetic energy of one mole of any depends upon
	[B]	temperature is low		[A]	pressure of the gas
	[C]	atmospheric pressure is high		[B]	nature of the gas
	[-]	spinone product to infin		[C]	absolute temperature of the gas
	[D]	None of the above		[D]	volume of the gas

- **47.** In a solid lattice the cation has left a lattice site and is located at an interstitial position, the lattice defect is
 - [A] vacancy defect



- [B] interstitial defect
- [C] Frenkel defect
- [D] Schottky defect
- **48.** The second order Bragg diffraction of X-rays with $\lambda = 1.0$ Å from a set of parallel planes in a metal occurs at an angle of 60°. The distance between the scattering planes in the crystal is
 - [A] 0.575 Å
 - [B] 1.00 Å
 - [C] 1.15 Å
 - [D] 2.00 Å
- **49.** In crystal structure of sodium chloride, the arrangement of Cl-ions is
 - [A] f.c.c.
 - [B] b.c.c.
 - [C] both f.c.c. and b.c.c.
 - [D] None of the above
- **50.** The hybridization of carbon in the structure of benzene is
 - [A] sp
 - [B] sp^2
 - [C] sp^3
 - [D] dsp^2

51. IUPAC name for the following compound is

- [A] cis-2-chloro-3-iodo-2-pentene
- [B] trans-2-chloro-3-iodopent-2-ene
- [C] trans-3-iodo-4-chloro-3-pentene
- [D] cis-3-iodo-4-chloro-3-pentene
- **52.** Structures, CH_3COCH_3 and $CH_2 = CH(OH)CH_3$ represent
 - [A] functional isomerism
 - [B] metamerism
 - [C] keto-enol tautomerism
 - [D] position isomerism
- **53.** A mixture of equal parts of (+) and (-) enantiomers is called
 - [A] racemic mixture
 - [B] homogeneous mixture
 - [C] equilibrium mixture
 - [D] resonance hybrid

- **54.** An important chemical method to resolve a racemic mixture makes use of the formation of
 - [A] a meso compound
 - [B] enantiomers
 - [C] diasteromers
 - [D] racemates
- 55. A functional isomer of 1-butyne is
 - [A] 2-butyne
 - [B] 1-butene
 - [C] 2-butene
 - [D] 1,3-butadiene
- **56.** Which of the following will show geometrical isomerism?
 - [A] Propene
 - [B] 1-butene
 - [C] Isobutylene
 - [D] 1,2-dibromobutane
- **57.** On heating sodium phenoxide with methyl iodide, we get
 - [A] anisole
 - [B] diethyl ether *
 - [C] diphenyl ether



[D] phenol

- 58. Glycerol is a
 - [A] primary alcohol
 - [B] monohydric alcohol
 - [C] secondary alcohol
 - [D] trihydric alcohol
- **59.** Which one of the following compounds will be most readily attacked by an electrophile?
 - [A] Benzene
 - [B] Chlorobenzene
 - [C] Toluene
 - [D] Phenol
- **60.** Aromatic aldehydes, in the presence of cyanide ion as catalyst, are converted into acyloins. This reaction is called
 - [A] Perkin reaction
 - [B] Benzoin condensation
 - [C] Cannizzaro reaction
 - [D] Claisen condensation
- **61.** Which of the following compounds gives a ketone with Grignard's reagent?
 - [A] Ethyl alcohol
 - [B] Formaldehyde
 - [C] Ethanenitrile
 - [D] Methyl iodide

62. The product **B** in the following sequence of reactions is

$$\label{eq:hc} HC \equiv CH \frac{1\% \; HgSO_4}{20\% \; H_2SO_4} \quad \textbf{A} \quad \frac{CH_3MgX}{H_2O} \quad \textbf{B}$$

- [A] acetone
- [B] acetic acid
- [C] isopropyl alcohol
- [D] ethanol
- 63. Which of the following is least acidic?
 - [A] C₂H₅OH
 - [B] C_6H_5OH
 - [C] CH₃COOH
 - [D] ClCH2COOH
- **64.** In presence of acid, hydrolysis of methyl cyanide gives
 - [A] methylamine
 - [B] acetic acid
 - [C] methyl alcohol
 - [D] formic acid
- **65.** The reaction between CO₂ and a Grignard reagent will yield
 - [A] an alkene
 - [B] an alcohol
 - [C] a carboxylic acid
 - [D] an alkylmagnesium halide

- **66.** Which of the following cannot reduce Fehling's solution?
 - [A] Glucose



- [B] Acetic acid
- [C] Formaldehyde
- [D] Acetaldehyde
- 67. In the following reaction,

$$CHCl_3 + C_6H_5NH_2 \xrightarrow{KOH} \mathbf{A} + 3\mathbf{B} + 3\mathbf{C}$$

the product A is

- [A] phenyl cyanide
- [B] phenyl isocyanide
- [C] ethylene chloride
- [D] chlorobenzene
- **68.** Which one of the following is a typical example of zwitterion?
 - [A] Aniline
 - [B] Acetamide
 - [C] Aminophenol
 - [D] Glycine
- **69.** The nature of glycosidic bond present in the structure of starch is
 - [A] $\beta (1 \rightarrow 4)$ -glycosidic bond
 - [B] $\alpha (1 \rightarrow 4)$ -glycosidic bond
 - [C] $\alpha (1 \rightarrow 4)$ -glycosidic bond and $\alpha (1 \rightarrow 6)$ -glycosidic bond
 - [D] None of the above

70.	Which one of the following is not present in DNA?	74. Among the following, which is not optically active amino acid?
	[A] Adenine	[A] Glycine
	[B] Cytosine	[B] Lysine
	[C] Uracil	[C] Alanine
	[D] Guanine	[D] Serine
71.	Adenosine consists of	75. The change in specific optical rotation of D-glucose in aqueous solution with time to an equilibrium value is called
	[A] adenine and $\alpha\text{-D-ribose}$	time to an equilibrium value is called
	[B] adenine and β-D-ribose	[A] optical rotation
	[C] adenine and 2-deoxy-ribose	[B] mutarotation
	[D] None of the above	[C] anomers [D] None of the above
72.	Which of the following is not present in nucleoside? [A] Nucleobase	76. Which of the following is not a monosaccharide?
	[B] Pentose sugar	[A] Ribose [B] Galactose
	[C] Phosphate	[C] Glycogen
	[D] None of the above	[D] Fructose
73.	Sugar molecule present in the structure of RNA is	77. The plant hormone responsible for fruit ripening is
	[A] α -D-ribose	[A] auxin
	[B] β-D-ribose *	[B] cytokinin
	[C] β-D-deoxyribose	[C] ethylene
	[D] glucose	[D] traumatic

- **78.** The hormone that regulates retention of water in the kidney is
 - [A] oxytocin
 - [B] thyroxin
 - [C] vasopressin



- [D] prolactin
- **79.** Which of the following vitamins' deficiency causes scurvy?
 - [A] Vitamin A
 - [B] Vitamin C
 - [C] Vitamin D
 - [D] Vitamin K
- **80.** Which of the following is also known as vitamin A?
 - [A] Riboflavin
 - [B] Retinol
 - [C] Thiamine
 - [D] Pyridoxin
- **81.** The carbohydrate, which cannot be digested by the human digestive system, is
 - [A] starch
 - [B] glucose
 - [C] fructose
 - [D] cellulose

82. For a reversible isothermal process in equilibrium, the entropy change is given by the expression

[A]
$$\Delta S = \frac{T}{q_{\text{rev}}}$$

[B]
$$\Delta S = \frac{q_{\text{rev}}}{T}$$

[C]
$$\Delta S = \frac{\Delta V}{T}$$

[D]
$$\Delta S = \frac{\Delta E}{T}$$

- **83.** Entropy change of a system and its surroundings in equilibrium
 - [A] increases
 - [B] decreases
 - [C] remains constant
 - [D] either increases or decreases
- **84.** $\Delta H_{\text{combustion}}$ of a compound is
 - [A] positive
 - [B] negative
 - [C] zero
 - [D] positive or negative
- **85.** Which law of thermodynamics introduces the concept of entropy?
 - [A] First law
 - [B] Second law
 - [C] Zeroth law
 - [D] Third law

- **86.** Which among the following is an extensive property of the system?
 - [A] Temperature
 - [B] Refractive index



- [C] Volume
- [D] Viscosity
- **87.** Heat exchanged in a chemical reaction at constant temperature and pressure is called
 - [A] enthalpy
 - [B] entropy
 - [C] internal energy
 - [D] free energy
- **88.** The enthalpies of formation of $C_2H_4(g)$, $CO_2(g)$ and $H_2O(l)$ at 25 °C and 1 atm. pressure are 52 kJ mol⁻¹, -394 kJ mol⁻¹ and -286 kJ mol⁻¹ respectively. The enthalpy of combustion of $C_2H_4(g)$ will be
 - [A] +1412 kJ mol⁻¹
 - [B] -1412 kJ mol⁻¹
 - [C] +141.2 kJ mol⁻¹
 - [D] -141.2 kJ mol⁻¹
- **89.** Energy required to dissociate 4 g of gaseous hydrogen into free gaseous atoms is 208 kcal at 25 °C. The bond energy of H H bond will be
 - [A] 10.4 kcal
 - [B] 104 kcal
 - [C] 1040 kcal
 - [D] 1.04 kcal

- **90.** Two moles of an ideal gas expand spontaneously into a vacuum. The work done is
 - [A] 1 J
 - [B] 2J
 - [C] 4 J
 - [D] zero
- **91.** According to third law of thermodynamics, the entropy at 0° K is zero for
 - [A] elements in their stable form
 - [B] perfectly crystalline solids
 - [C] substances at 1 atm and 25 °C
 - [D] gaseous substances only
- **92.** In which one of the following compounds the oxidation number of oxygen is positive?
 - $[A] \quad H_2O_2$
 - $[\mathrm{B}] \quad \mathrm{OF}_2$
 - [C] Na_2O_2
 - [D] H₂O
- 93. The oxidation number and covalency of sulphur in sulphur molecule (S_8) are
 - [A] 0 and 2
 - [B] +6 and 8
 - [C] 0 and 6
 - [D] +6 and 2

- 94. In the reaction,
- $3Cl_2 + 6NaOH \longrightarrow NaClO_3 + 5NaCl + 3H_2O$

the element which loses as well as gains electron is

- [A] Na
- [B] O
- [C] C1
- [D] None of the above
- **95.** The violent reaction between sodium and water is an example of
 - [A] reduction
 - [B] oxidation
 - [C] redox reaction
 - [D] neutralization reaction
- 96. In galvanic cell
 - [A] oxidation occurs at cathode
 - [B] oxidation occurs at anode
 - [C] no reaction occurs at cathode
 - [D] reduction occurs at anode

- **97.** During the electrolysis of fused NaCl, which reaction occurs at anode?
 - [A] Chloride ions are oxidised
 - [B] Chloride ions are reduced
 - [C] Sodium ions are oxidised
 - [D] Sodium ions are reduced
- **98.** The molar conductivity of weak electrolyte at infinite dilution can be obtained from
 - [A] Ostwald's law
 - [B] Kirchhoff's law
 - [C] Kohlrausch's law
 - [D] Faraday's law
- **99.** When the cell reaction attains a state of equilibrium, the EMF of the cell is
 - [A] zero
 - [B] positive
 - [C] negative
 - [D] not definite
- **100.** Calculate the EMF of the cell at 25 °C $Cr(s) | Cr^{+3}(0.1M) | Fe^{+2}(0.01M) | Fe(s)$

if,
$$E_{\text{Cr}^{+3}/\text{Cr} = -0.74\text{V}}^{\circ}$$
 $E_{\text{Fe}^{+2}/\text{Fe} = -0.45\text{V}}^{\circ}$

- [A] +0.3 V
- [B] -0.3 V



- [C] +0.26 V
- [D] -0.26 V

SPACE FOR ROUGH WORK

/19-**a**

SPACE FOR ROUGH WORK





DDD24/4(171)—

SEAL

FINAL ANSWER KEY OF

LECTURER (DIET) 2024

CHEMISTRY

SET-A

Q NO.	ANS
1	D
2	C
3	D
4	D
1 2 3 4 5 6 7	D D A C A B C A B C A C C
6	C
7	A
8 9	В
	В
10	С
11	A
12	В
13	С
14	С
15	В
16	D
17	A
18	В
19	A
20	B D A B A C A
21	A
21 22 23 24 25	D D A
23	D
24	
25	A

Q NO.	ANS
26 27	A A
27	A
28	D
29	В
30	D B B
31	C B
32	
33 34 35 36 37	С
34	В
35	B B C A C B C A
36	В
37	C
38	A
39	C
40	В
41	C
42	A
43	В
44	D
43 44 45 46	B D B
46	C
47	С
48	C
49	A
50	В

Q NO.	ANS
51	В
52	С
53	A
54	C
55	D
56	В
57	A
51 52 53 54 55 56 57 58 59	B C A C D B A D D B C C A B C C C A B C
	D
60	В
61	C
62	C
63	A
64	В
65	
66	В
67	В
68	B B D
69	C
70	С
71	В
72	C
69 70 71 72 73 74 75	B A
74	A
75	В

Q NO.	ANS
76 77 78 79 80	С
77	C
78	С
79	C C B B B D B
	В
81	D
82	В
83	C
84	В
85	В
86	С
87	A
88	B B C A B B
89	В
90	D
91	В
92	В
93 94	A
94	С
95	С
96	В
97	A
98	D B B A C C B A C A
99	A
100	С