MDU M.Sc Entrance: 2015

Chemistry

***** Question Paper

All questions are compulsory (One mark each)

Q.1 The number of optically active isomers of HOCH₂(CHOH)₄CHO is

(a) 4

(b) 8

(c) 16

(d) 24

Total Marks: 100 (1.5 Hours)

Q.2 Geometry of trifluoromethyl free radical is:

- (a) planar
- (b) pyramidal
- (c) v-shaped
- (d) Tetrahedral

Q.3

H₃C CH₃ on treatment with aq. KOH gives

(a)

(b)

(c)

(d)

$$\bigcup_{\text{CH}_3}^{\text{OH}} \text{CH}_3$$

Q.4 Chloroform easily gets converted to poisonous phosgene in presence of air and sunlight. Which of the following substance is added to prevent formation of phosgene?

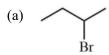
(a) Ethanol

(b) Sodium carbonate

(c) Diethyl carbonate

(d) Sodium hydroxide

Q.5 n-Butane reacts with Br₂ at 130° to give more amount of:

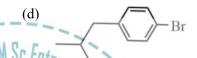




All equal (d) amounts

Q.6 The reaction of

with HBr gives:



Q.7 Preparation of alkyl halides in laboratory is least preferred by

- Halide exchange (a) Direct halogenation of alkanes
- Treatment of alcohols of hydrogen halides to alkenes

Q.8 Allyl alcohol is obtained when glycerol reacts with following at 26

- Formic acid

(d) None

Q.9 Predict the major product:

- $HO-CH_2-CH_2-CH_2-CH_2-I\\$
- (b) $HO CH_2 CH_2 CH_2 CH_2 OH$
- $I-CH_2-CH_2-CH_2-CH_2-I$
- No reaction

Q.10 Conversion of chlorobenzene into phenol of Dow's process is an example of:

Free radical substitution

(b) Nucleophilic substitution

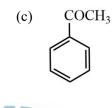


(c) Electrophilic substitution

- (d) Rearrangement
- Q.11 Predict the products of reaction below:

 $(a) \qquad \begin{matrix} OH \\ \hline \\ COCH_3 \end{matrix}$





(d) Both (a) and (b)

- Q.12 The product formed in the following reaction $C_6H_5 O CH_3$ are
- (a) C₆H₅OH and CH₃

(b) C₆H₅OH and CH₃OH

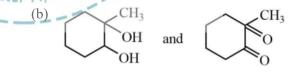
(c) C₆H₅I and CH₃I

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Q.13 A and B are in the following reaction

(a) OH and OH



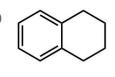
(c) CH_3 OH and OH

- (d) None of these
- Q.14 3-methyl, 3-hexanol can be prepared by:
- (a) CH₃MgI and 3-hexanone, followed by hydrolysis
- (b) C₂H₅MgI and 2-pentanone, followed by hydrolysis

- C₃H₇MgI and 2-butanone, followed by hydrolysis
- (d) Any of the above methods
- Q.15 Which of the following does not give ethylamine on reduction?
 - Methyl cyanide
- (b) Ethyl nitrile
- Nitroethane
- Acetamide (d)
- Q.16 Activation by benzene ring by NH₂ in aniline can be reduced by treating with:
- Dilute HCl
- (b) Ethyl alcohol
- (c) Acetic acid
- Acetyl chloride (d)

Q.17

(a)



- Q.18 Hydrogenation of C₆H₅CHOHCOOH over *Pd-Al*₂O₃ catalyst on methanol gives:
- C₆H₅COOH (a)

C₆H₁₁CHOHCOOH

(c) C₆H₅CHOHCH₂OH C₆H₁₁CH₂COOH

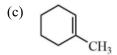
Q.19

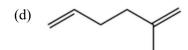
$$C_7H_{12} \xrightarrow{\text{(i) KMnO}_4} COOH, C_7H_{12}$$

$$\text{(ii) } A \text{ is}$$

$$\text{(a)} CH_2$$

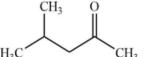




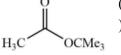


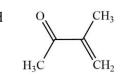
Q.20 When 2-methyl propene is treated with acetyl chloride in the presence of SnCl₂, the product is

(a) H₃C









- Q.21 A nitrogenous substance X is treated with HNO_2 and the product so formed is further treated with NaOH solution, which produces blue colouration, X can be:
- (a) CH₃CH₂NH₂

 $(CH_3)_2CHNO_2$ (d)

- Q.22 The monomeric unit present in natural rubber is
- Butadiene (a)
- Terephthalic acid
- Hexamethylenetetramine adalalin (c)

- Q.23 Ethyl acetoacetate reacts with hydroxylamine and product formed immediately loses a molecule of ethanol to form
- Methyl phenyl pyrazolone (a)

methylcoumarin

Methyl oxazolone (c)

- (d) Methyl isoxazolone
- Q.24 In UV the following compound would show absorption at:



- 280 nm (a)
- 259 nm (b)
- 304 nm
- (d) 317 nm
- Q.25 Which of following reaction involves rearrangement of nitrogen yields?
- (a) Wittig reaction

Von-Richter reaction

- (c) Sommlet-Hauser rearrangement
- (d) Pinacol-Pinacolone rearrangement
- Q.26 Absolute configuration of this compound is

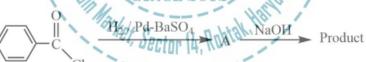
- 2S, 3S (a)
- (b) 2R, 3R
- (c) 2S, 3R
- (d) 2R, 3S

Q.27 Reagent used in given reaction is

- NaBH₄ / CH₃OH (a)
- (c) SeO_4

Br₂ followed by reaction with KOH

- Q.28 Product in the following reaction is



COONa

- COONa and
- Q.29 Heterocyclic β-keto esters can be prepared by which one of the following reactions?
 - 2,3-dimethoxycarbonyl pent-1,3-diene
 - Micheal addition followed by Dieckmann condensation (b)
 - Claisen ester condensation (c)

- (d) Micheal addition
- Q.30 The artificial sweetner used in soft drinks is
- (a) Glucose
- (b) Fructose
- (c) Asparatin
- (d) Glycerol

Q.31 The IUPAC name of compound is

$$HC \longrightarrow CH_3$$
 $H_2C \longrightarrow C \longrightarrow COOM_0$
 $H_2C \longrightarrow CH_2$

- (a) 2,3-dimethoxycarbonyl pent-1,3-diene
- (b) 2-Ethylidene-3-methylidene dimethyl pentan-1,5-dioate
- (c) 2-Ethylidene-3-methylidene methyl pentan-1,5-dioate
- (d) None of these

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Q.32 m-cresol on bromination gives

(a) Br CH₃ Br OI

(b) CH₃ (c) CH₂Br
Br SINCE 2012 Br
OH Jector 4

CH₃
OH

(d)

Q.33 Which of the following compounds on reaction with KNH_2 in liq. NH_3 does not involve Benzyne intermediate?

(a) Cl

(b) Cl OCH₃

 C_2H_5 CH_3

(d) C1

Q.34 Allylic halogen substitution can be done with

(a)	Halogen at high temper	ature

(b) NBS in sunlight

All of these

Q.35 Which of the following sets of quantum numbers is not allowed?

(a)
$$n = 3, 1 = 1, m = +2$$

(b)
$$n = 3, 1 = 1, m = \pm 1$$

(c)
$$n = 3, 1 = 0, m = 0$$

(d)
$$n = 3, 1 = 2, m = \pm 2$$

Q.36 Which of the following orbitals has zero probability of finding the electron in yz-plane

(a)
$$P_x$$

(b)
$$P_{v}$$

(c)
$$P_z$$

(d)
$$d_{yz}$$

Q.37 Which of the following orders regarding the ionization

(a)
$$N > O > F$$

(b)
$$F > Q >$$

(c)
$$N > O < F$$

$$(\mathsf{d}) \quad O > F > N$$

Q.38 Most favourable condition to form a covalent bond is

Large cation and small anion alalinstitute co (b) tlarge cation and large anion

small cation and small anion

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Q.39 Silicon doped with arsenic is an example of which type of semiconductor?

Q.40 Which of the following defect, if present lowers the density of the crystal?

Frenkel (a)

Schottky

Edge dislocation (c)

Constitution of F-centre

Q.41 A hybrid orbital formed from s and p orbital can contribute to

- (a) a σ bond only
- (b) π -bond only
- (c) either a σ or π bond (d) cannot be predicted

Q.42 During change of NO⁺ to NO, the electron is added to

(a)	σ- orbital	(b)	π - orbital	(c)	σ^* - orbital	(d)	π^* -orbital
Q.43	Intramolecular H-bo	nding	is present in				
(a)	From nitrophenol			(b)	Salicylaldehyde		
(c)	Hydrogen chloride			(d)	Benzophenone		
Q.44	Which forces are stro	ongest	amongst the following	g?			
(a)	Ion-ion interaction			(b)	Ion dipole forces		
(c)	Dipole-dipole force	S		(d)	Dipole-induced dipo	ole for	ces
			TO STE M	Cr.E.			
Q.45	The product obtained	d in the	e reaction of diborane	with	excess of ammonia is		
(a)	$B_2H_6.NH_3$	(b)	B ₂ H ₆ ,2NH ₃ CHEM	(c)	$(BN)_X$	(d)	Borazine
Q.46	Pyrophosphoric acid	is 🗡	LAL IN	VS		1	
(a)	monobasic	(int))	@dibasidinstitute.co) (d)	tetrabasic
	L		www.dalali	nsti	tute.com		
Q.47	The basic unit in lay	er and	sheet silicates is NCI	20	12,		
(a)	SiO_4^{4-}	(b)	$Si_2O_7^{6-}$	(c)	$(SiO_3)_n^{2n}$	(d)	$(Si_2O_5)_n^{2n-}$
			Sector	14,1	anton		
Q.48	Which of the following	ng boı	nds is the strongest?				
(a)	F– F	(b)	Cl–Cl	(c)	I–I	(d)	Br–Br
Q.49	Hybridization and st	ructure	e of XeF4 is				
(a)	sp ³ d, trigonal bipyra	amidal		(b)	sp³, tetrahedral		
(c)	sp ³ d ² , trigonal bipyr	ramida	1	(d)	sp ³ d ² , hexagonal		



(d) *Cr*

(a) Mn

(c) V

Q.50 Which of the following transition element shows the highest oxidation state?

(b) Fe

Q.51 The planar complex (MABCD) gives

(a)	two optical isomers			(b)	two geometrical ison	ners	
(c)	three optical isomers			(d)	three geometrical iso	omers	
Q.52	Which one of the follo	owing	compounds will beha	ive as	amino base in ammo	nia?	
(a)	NaNH ₂	(b)	NH4OH	(c)	(NH ₄) ₂ SO ₂	(d)	(NH ₄) ₂ CO ₃
Q.53	The +3 ion of which of	of the	following has half-fill	ed of	subshell?		
(a)	La	(b)	Lu	(c) -	Cd	(d)	Ac
			WIT-GATE, M.	Sc Ent	Panne		
Q.54	In a nuclear reactor, o	1			1/1/2		terial?
(a)	Uranium and Actinit	ım /	CHEM!	(b)	Thorium and Actinit	ım	
(c)	Uranium, thorium ar	id Plu	tonium	(d)	Thorium, Actinium	and Pl	utonium
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Q.55	In qualitative analysis						
(a) To Decrease OH ⁻ concentration (b) To increase OH ⁻ concentration							
(c)	For making HCl		SINCE SINCE	-(d)- 4, R	statement is wrong		
Q.56	The brown ring test for	or NO	$\frac{1}{2}$ and NO $_3^-$ is due to the	ne for	nation of complex io	n havi	ng the formula
(a)	$[Fe(H_2O)_6]^{2+}$	(b)	[Fe(NO)(CN) ₅] ²⁺	(c)	$[Fe(H_2O)_5NO]^{2+}$	(d)	$[Fe(H_2O)(NO)_5]^{2+}$
	The CFSE will be hig						
(a)	$[CoF_6]^{3-}$	(b)	$[\text{Co}(\text{CNS})_4]^{2-}$	(c)	$[Mn(H_2O)_6]^{2+}$	(d)	$[Co(NH_3)_6]^{3+}$
Q.58 The expected spin-only magnetic moments for [Fe(CN) ₆] ⁴⁻ and [FeF ₆] ³⁻ respectively are							
(a)	1.73 and 1.73 BM	(b)	1.73 and 5.92 BM	(c)	0.0 and 1.73 BM	(d)	0.0 and 5.92 BM
	In tetrahedral geometribution to the magneti			ng sets	s of electronic config	uratio	ns will have orbital



(a)	d^3 ,	d^4 ,	d^8	and	d ⁹

(b)
$$d^1$$
, d^6 , d^7 and d^9

(c)
$$d^3$$
, d^4 , d^7 and d^9

(d)
$$d^1$$
, d^3 , d^4 and d^9

Q.60 The most suitable route to prepare the trans isomer of $[PtCl_2(NH_3)(PPh_3)]$ is

- $[PtCl_4]^{2-}$ with PPh_3 followed by reaction with NH_3
- $[PtCl_4]^{2-}$ with NH_3 followed by reaction with PPh_3
- $[Pt(NH_3)_4]^{2+}$ with HCl followed by reaction with PPh_3
- $[Pt(NH_3)_4]^{2+}$ with PPh_3 followed by reaction with HCl(d)

Q.61 The ground state term symbol for d^3 is

(a)
$${}^{4}F_{3/2}$$

(b)
$${}^{4}F_{9}$$

(d)
$${}^{4}P_{3/2}$$

Q.62 The pair of metal carbonyl complexes that are isoelectronic is

(a)
$$[Ni(CO)_4]$$
 and $V(CO)_6$

(b)
$$[Ni(CO)_4]$$
 and $[Co(CO)_4]$

(c)
$$[Cr(CO)_6]$$
 and $V(CO)_6$

(d)
$$[Fe(CO)_4]^-$$
 and $[Cr(CO)_6]$

Q.63 Which of the following is a soft of hard and soft acids?

(a)
$$Ag^+$$

(b)
$$I^{7+}$$

(d)
$$Al^{3+}$$

Q.64 Which of the following chemical species can beha both as a Bronsted-Lowry acid and a base?

(a)
$$H_3O^+$$

(b)
$$HCO_3^-$$

(c)
$$NO_3^-$$

(d)
$$SO_4^-$$

Q.65 In oxyhaemoglobin Fe is in state

Low spin and diamagnetic

(b) Low spin and paramagnetic

High spin and diamagnetic (c)

High spin and paramagnetic

Q.66 Zeise's salt is represented by

- (a) H_2PtCl_6
- (b) $[PtCl_4]^{2-}$
- (c) $\lceil ZnCl_4 \rceil^{2-}$
- (d) $\int PtCl_3(n^2 (C_2H_4))^{2-}$

Q.67 The asymmetry in the electronic absorption spectrum in the visible region of is caused by



- (a) Charge transfer
- (b) $t_2 \rightarrow e$
- (c) $e \rightarrow t$
- John-teller effect

Q.68 Which of the following is correct?

 $[A^2, B] = \hat{A}[\hat{A}, \hat{B}] + [\hat{A}, \hat{B}]\hat{A}$

(b) $[A^2, B] = \hat{A}[\hat{B}, \hat{A}] + [\hat{A}, \hat{B}]\hat{A}$

(c) $[A^2, B] = \hat{A}[\hat{A}, \hat{B}] + \hat{A}[\hat{A}, \hat{B}]$

(d) None of the above

Q.69 The operator for square of linear momentum, is given by

- $\hat{p}^2 = \hbar^2 \nabla^2$ (a)
- $h^2\nabla^2$
- $\hat{n}^2 = -\hbar^2 \nabla^2$ (c)
- (d) $i\hbar\nabla^2$

Q.70 Eigen value is always a

- (a) Zero value
- Infinite value
- Positive value
- (d) Negative value

Q.71 Entropy is related to probability by relation

- S = RlnW
- (c)
- (d) S = k/lnW

Q.72 The organic compound C₂H₆O

- One equivalent CH₃ group
- (c) Two non-equivalent CH3 groups

Q.73 Thermal conductivity of gas is independent of

- Pressure (a)
- (b) Temperature
- Mean free path
- Heat capacity at constant volume

Q.74 The vibrational degrees of freedom of a protein molecule containing 44,000 atoms are

- 13,410 (a)
- (b) 44,700
- 31 (c)

(d) 1,34,100

Q.75 The equation for predicting atmospheric pressure called barometric formula is

(a) $P = P_0 exp\left(\frac{-Mgx}{RT}\right)$

(b) $P = P_0 exp\left(\frac{Mgx}{RT}\right)$

(c) $P = P_0 exp\left(\frac{Mg}{PT}\right)$

(d) $P = P_0 exp\left(\frac{Mgx^2}{RT}\right)$

Where x,g are the altitude and acceleration due to gravity.

Q.76 The Vander Waals equation for 'n' moles of gas is expressed by

(a)
$$P = \frac{RT}{V - nb} - \frac{an^2}{V^2}$$

(b)
$$P = \frac{nRT}{V - nb} - \frac{an^2}{V^2}$$

(c)
$$P = \frac{RT}{nV-h} - \frac{an^2}{V^2}$$

(d)
$$P = \frac{nRT}{V-h} - \frac{an^2}{V^2}$$

Q.77 The mass less particles are

- (a) **Protons**
- (b) α-rays
- gamma rays
- (d) β-particles

Q.78 Absorbance A of the solution is expressed as

- (a) $\log\left(\frac{I}{I_0}\right)$

- (d) $\log\left(\frac{I_0}{I}\right)$

Q.79 A real gas most closely approaches the behaviour of a perfect gas at

- low pressure and high temperature
- high pressure and low temperature (b)
- low pressure and low temperature
- (d) high pressure and high temperature

Q.80 The boiling point of a liquid is 36°C. Assuming that it obeys Trouton's rule, its molar heat of vaporization will be

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- 271.92 KJ mol⁻¹
- (b) 27.192 KJ mol⁻¹ (c) 2719.2 KJ mol⁻¹
- (d) 2.7192 KJ mol⁻¹

Q.81 The Miller indices of crystal planes which cut through the crystal axis at (2a, -3b, -3c) are

- $(\bar{2}\,\bar{2}\,3)$ (a)
- $(\bar{2} \; 3 \; \bar{2})$
- (c) $(3\bar{2}\bar{2})$
- (d) (2 3 2)

Q.82 A tetragonal crystal possesses the following axis of symmetry

- two-fold (a)
- (b) six-fold
- four-fold
- three-fold (d)

Q.83 The temperature below which a gas becomes cooler on expansion is filled

Boyle temperature (a)

(b) Inversion temperature

(c) Critical temperature

Boiling point (d)

Q.84 For one mole of the gaseous mixture, the entropy of mixing is given by

(a)
$$\Delta S = -R\Sigma r_i ln x_I$$

(b)
$$\Delta S = -R\Sigma ln x_I$$

(c)
$$\Delta S = -R\Sigma r_i ln r_I$$

(d)
$$\Delta S = -R\Sigma x_i ln x_I$$

Where r_i , x_i represent activity coefficient and mole fraction of components in the mixture.

Q.85 Which of the following is correct?

(a)
$$\left(\frac{\partial S}{\partial P}\right)_T = -\left(\frac{\partial V}{\partial T}\right)_P$$

(b)
$$\left(\frac{\partial S}{\partial P}\right)_T = \left(\frac{\partial V}{\partial S}\right)_P$$

(c)
$$\left(\frac{\partial S}{\partial V}\right)_T = -\left(\frac{\partial P}{\partial T}\right)_V$$

(d)
$$\left(\frac{\partial T}{\partial V}\right)_S = \left(\frac{\partial P}{\partial S}\right)_V$$

Q.86 The standard state for a solid is the pure state of solid at

- One atmospheric pressure and 273
- One atmospheric pressure and given temperature

(c) 273K One atmospheric pressure and 273 K

Q.87 In the limit for crystal

(a)
$$S_T = C_P$$

(b)
$$S_T = C_{P/3}$$
 (c) $S_T = C_{P/3}$

Where C_p, C_v are heat capacity at constant pressure and volume respectively

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Q.88 Which aqueous solution of urea freezes at -0.93C

30 gm in one litre of solution

150 gm in 5 litre of water

30 gm in 500 ml of water (c)

Q.89 The parameters of an orthorhombic unit cell is a = 50 pm, b = 100 pm, c = 150 pm. The spacing between (123) planes will be

- (a) 29 pm
- (b) 0.029 pm
- (c) 0.29 pm
- (d) 2.9 pm

Q.90 Milk is a/an

(a) gel

- emulsion (b)
- suspension (c)
- (d) Pure solution

 $S_T = C_{V/T}$

Q.91 The rate constant for a second-order reaction is If the initial

- (a) 100 minutes
- (b) 10 minutes
- 300 seconds
- (d) 1.0 minute

Q.92	Triple point is the p	oint where					
(a)	Three components	are in equil	ibrium	(b)	The number of degree	ees of	freedom is three
(c)	The number of deg	grees of free	dom is zero	(d)	Three components a	re not	in equilibrium
_	For the distribution $\sqrt{C_1}$ suggest that	of organic s	olute between w	ater (C	C_1) and benzene (C_2), J_1	partiti	on coefficient $k =$
(a)	Solute exist as mor	nomer in Be	nzene	(b)	Solute as exist as dir	mer in	benzene
(c)	Solute exist as dim	ner in water		(d)	None of these		
Q.94	In the lead acid batt	ery during c	hanging the cath	odic r	eaction is		
(a)	Formation of PbSC	O_4		(b)	Formation of PbO ₄		
(c)	Reduction of Pb^{2+}	to Pb^{I+}	INF. IT GATE, M.	(d)	Reduction of Pb^{2+} to	o Pb	
Q.95	Which of the follow	ing is not a	state function?	ISTI	RY		
(a)	Work	(b) Ent	halpy	(c)	Heat	(d)	Gibbs free energy
Q.96 The pH of a solution obtained by mixing 25 ml of 0.2 M HCl with 50 ml of $NaOH$ ($k_w = 10^{-14}$ mol ² dm ⁻⁶) will be:							
(a)	10	(b) 1.3	SINC	(c) E 20	13	(d)	12
Q.97 The emulsifiers consist of:							
(a)	Ionic compound		7 06610	(b)	Ionic surfactant		
(c)	Ionic and non-iono	ogenic surfac	etant	(d)	Non-ionic surfactant	t	
Q.98	The rotational spect	ra of a rigid	diatomic rotator	consi	sts of equally spaced l	ines v	vith spacing equal to
(a)	2B	(b) B		(c)	3B	(d)	3B/2
When	re B is the rotational	constant.					
Q.99 Strong covalent bond exists between polymer chains in:							
(a)	Thermoplasts	(b) The	ermosets	(c)	Elastomers	(d)	All polymers
0.100	O Choose the correct	one:					



- (a) $1 \text{ eV} = 806.56 \text{ cm}^{-1}$
- (c) $1 \text{ eV} = 80.656 \text{ cm}^{-1}$

- (b) $1 \text{ eV} = 80656 \text{ cm}^{-1}$
- (d) $1 \text{ eV} = 8065.6 \text{ cm}^{-1}$





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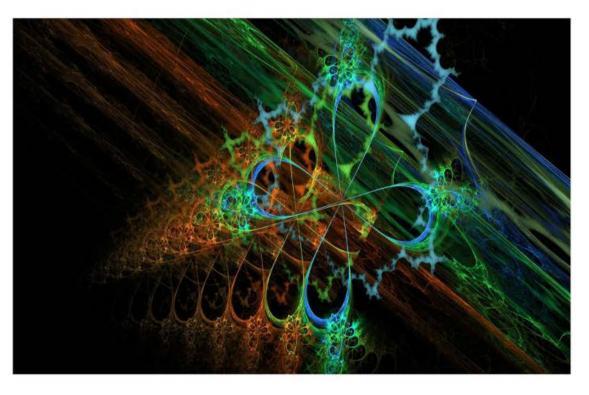






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