

CHEMISTRY SEMESTER I , II,III , IV - ATKT SAMPLE QUESTIONS

Sr No.	Question	Option1	Option 2	Option3	Option 4
1	Give IUPAC names of the following compounds. $(\text{CH}_3)_2\text{C}=\text{CH}\cdot\text{CH}_3$	1-Methyl -2-butene	2-Methyl -2-butene	2-Methyl -2-butene	2-Methyl -2-butane
2	Give IUPAC names of the following compounds. $\text{CH}_3\text{O}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{CH}_3$	1-Butoxymethane	1-Methoxybutane	4-Methoxybutane	4-Butoxymethane
3	Methane molecule has _____ hybridisation.	sp^3	sp^2	sp	sp^3d
4	Shape of sp^3 hybridisation molecule .	planar	pyramidal	linear	tetrahedral
5	Bond angle of sp^2 hybridisation molecule is _____.	120 degree	180 degree	109.5 degree	90 degree
6	For a second order reaction half-time is _____ to the initial concentration.	directly proportional	not proportional	inversely proportional	depends on condition
7	At 30 degree Celcius water has a viscosity of?	0.801	2	1.4	6.29
8	Which of the following rate law is of third order?	$\text{rate} = k[\text{A}]^2[\text{B}]^3$	$\text{rate} = k[\text{A}]^3[\text{B}]^3$	$\text{rate} = [\text{A}]^5[\text{B}]^2$	$\text{rate} = [\text{A}][\text{B}]^2$
9	If two similar groups in a projection formulae are on different side, the isomer is called _____ form.	configuration	erythro	meso compound	threo
10	Non-Superimposable non-mirror images of 2 chiral molecule is called?	enantiomers	meso compound	diastereomers	anomers
11	Boron is _____ group elements.	13	14	15	16
12	Thulium is denoted by _____.	T	Tl	Th	Tm
13	Diborane has _____ bonding.	covalent	ionic	coordinate	banana
14	Silicon tetrachloride has _____ structure.	pyramidal	linear	trigonal	tetrahedral
15	Atomic number of silicon _____.	14	15	21	25
16	Which of the following is oxides of nitrogen _____.	N_2O	NO	NO_3	N
17	PCC stands for	pyridin chlorocromate	pyrine chlorocromate	pyridinium chlorocromate	pyroll chlorocromate
18	LiAlH_4 used as _____ agents.	reducing	oxidising	catalyst poison	inhibitor
19	In Claisen Schmidt reaction an aromatic aldehyde reacts with an aliphatic aldehyde having _____.	No alpha hydrogen atom	1 alpha hydrogen atom	2 alpha hydrogen atom	one beta hydrogen atom
20	Grignards reagent is denoted by _____.	RMgX	MgX	RX	Mg
21	For a second order reaction half-time is _____ to the initial concentration.	directly proportional	not proportional	inversely proportional	depends on condition
22	At 30 degree Celcius water has a viscosity of?	0.801	2	1.4	6.29
23	Which of the following rate law is of third order?	$\text{rate} = k[\text{A}]^2[\text{B}]^3$	$\text{rate} = k[\text{A}]^3[\text{B}]^3$	$\text{rate} = [\text{A}]^5[\text{B}]^2$	$\text{rate} = [\text{A}][\text{B}]^2$
24	If two similar groups in a projection formulae are on different side, the isomer is called _____ form.	configuration	erythro	meso compound	threo
25	Non-Superimposable non-mirror images of 2 chiral molecule is called?	enantiomers	meso compound	diastereomers	anomers
26	The most unstable confirmation of ethane is of _____ form.	anti-periplanar	syn periplanar	staggered	eclipsed
27	Non-metallic character of metals _____ from left to right across the period.	remains same	increases	decreases	decreases than
28	_____ are binary compounds of nitrogen with an element which is more electropositive or less electronegative than nitrogen itself	nitrides	oxides	carbides	hydroxides
29	_____ element is the most electronegative element in the periodic table.	chlorine	florine	bromine	iodine
30	The units in which molar refraction is expressed as _____.	cm^3mol	cm^{-3}mol	$\text{cm}^{-3}\text{mol}^{-1}$	$\text{cm}^3\text{mol}^{-1}$