Examination October 2020

B.Sc. F.Y (Sem-I)

2142 Chemistry Paper-II (Organic Chemistry)

Time: One Hour Max. Marks: 25

Instructions

Solve any 25 questions from Q1 to Q30

i The force of attraction that keeps a	torns together is called		
(A)Atom	(B)atomic structure	(C)chemical bond	(D)energy level
2 Caron atom in CH4 is			
(A)Tetravalent	(B)divalent	(C)monovalent	(D)trivalent
3 Boron atom in BF3 is			
(A)Trivalent	(B)monovalent	(C)tetravalent	(D)divalent
4 Benzene react with acetic anhydride in	prescence of AlCl3 to form		
(A)benzophenone	(B)phenyl acetic acid	(C)phenyl acetate	(D)acetophenone
5 When the carbon atom is SP3 hybridized in a compound, it is bonded to atoms.			
(A)2 other	(B)4 other	(C)3 other	(D)5 other
6 What is bond angle between hybrid orbital of CH4 moleculeo			
(A)180	(B)120	(C)109.5	(D)115.5
7 The fission of covalent bond in which both acquire single electron is called			
(A)hemolytic	(B)heterolytic	(C)anisotropic	(D)metameric
8 Which of the following is electrophile			
(A)H+	(B)OH -	(C)OR -	(D)RNH3
9 Which of the following is Lewis acid			
(А)СНЗОН	(B)AlCl3	(C)NH3	(D)CH3OCH3
10 The fission of covalent bond in which	both acquire single electron is called		
(A)hemolytic	(B)heterolytic	(C)anisotropic	(D)metameric
11 The reaction in which an atom or group of atom are replaced by other atom or group is called			
(A)rearrangement	(B)addition	(C)elimination	(D)Substitution
12 Carbacation is Hybridized.			
(A)Sp	(B)SP2	(C)SP3	(D)none
13 The carbon atom which possess unpaired electron is called			
(A)carbocation	(B)carbanion	(C)free radical	(D)carbine
14 CH3COCH3 & CH3CH2CHO exihibit isomerism.			
(A)Chain	(B)metamerismn	(C)functional	(D)tatomerism
15 Stereoisomers which are not mirror im	ages of each other but non super imposable	e are called	
(A)Enantiomers	(B)diastereoisomers	(C)metamers	(D)none
16 In reaction alkyl halide in prescence of	f dry ether reacts with Na or Zn to form high	her alkane	
(A)Wurtz	(B)Kolbe	(C)Corey- House	(D)none
17 The unsaturated hydrocarbon containing	ng at least one C-C double bond are called.		
(A)free radicals	(B)alkynes	(C)alkenes	(D)alkanes
18 Alkyl halide on heating with alc. KOH	I solution gives		
(A)Alkane	(B)alkene	(C)alkyne	(D)none
19 Peroxide effect occurs according to			
(A)Markownikofs rule	(B)anti markonikofs rule	(C)Initiation	(D)none
20 SN1 reaction is			
(A)nucleophilic unimolecular reaction	(B)nucleophilic bimolecular reaction	(C)nucleophilic reaction	(D)none
21 Nitration of benzene gives			
(A)Nitobenzene	(B)O- nitro benzene	(C)nito toluene	(D)none
22 Toluene on oxidation with alkaline KMnO4 solution gives			
(A)benzoic acid	(B)toluene	(C)none	(D)methyl cyclohexane
23 2-butene reacts with HBr to give			
(A)1-bromo butane	(B)2,3- dibromo butane	(C)2-bromo butane	(D)bromo butane
24 Which is correct bond length of follow	ring		
(A)HI >HBr > HCl > HF	(B) $HBr > HCl > HF > HI$	(C)HI $>$ HCl $>$ HF $>$ HBr	(D)none
25 Lactic acid exhibits isomerism			
(A)optical	(B)rotational	(C)functional	(D)none
26 How many structural isomers are possible for C4H9Cl			
(A)3	(B)4	(C)5	(D)2

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27 Which of the following cycloalkane is most reactive....

(A)cyclohexane (B)cyclobutane (C)cyclopentane (D)cyclopropane

28 The triple bond consist of

(A)1 sigma & 2 pi bond (B)2 sigma bond (C)3-pi bond (D)2 sigma & 1pi bond

29 Benzene react with acetic anhydride in prescence of AlCl3 to form.....

(A)benzophenone (B)phenyl acetic acid (C)phenyl acetate (D)acetophenone

30 Whih of the following compound is undergoes nitration most easily....

(A)Nitrobenzene (B)benzoic acid (C)Toluene (D)benzene