JVM's Mehta Degree College

Mission Exam 2020

T.Y.B.Sc. (Organic Chemistry) Sem-VI

Mock Question paper

1.		A carbon atom to which enantiotopic ligands are attached is called
	a)	Chiral centre
	b)	Prochiral centre
	c)	chiral carbon
	d)	stereogenic centre
2	α)	The base induced dehydrohalogenation of 1-Bromo-1,2-diphenyl propane
_		follows
	a)	E1 Mechanism
	b)	Ei mechanism
	c)	E1CB mechanism
	d)	E2 Mechanism
3	/	If a pair of diastereomers are obtained by attaching an atom or group to one or
		other faces of a molecule, the they are called
	a)	Enantiotopic
	b)	Diastereotopic
	c)	Homotopic
	d)	Stereotopic
4		Building blocks of proteins are monomeric
	a)	Oligopeptide
	b)	polypeptide
	c)	dipeptide
	d)	amino acid
5		Histidine is an example of Amino acid.
	a)	Neutral
	b)	Acidic
	c)	Basic
	d)	Ionic
6		The acid catalysed conversion of vicinal diols to highly substituted aldehydes or
		ketones is known as
	a)	Pinacol-pinacolone rearrangement
	b)	Michael reaction
	c)	wittig reaciton
	d)	Beckmann
7		Reaction of carbonyl compound with phosphorous ylide to produce alkene is
		known as
	a)	Pinacol-pinacolone rearrangement
	b)	Michael reaction
	c)	wittig reaciton
	ď)	Beckmann

8		Which one of the following is disaccharides?
	a)	Lactose
	b)	Glucose
	c)	Mannose
	d)	Galactose
9	۵,	D-Glucose on oxidation with Br ₂ -H ₂ O gives the following aldonic acid
	a)	ÇHO ÇOOH ÇOOH ÇH₃
	a)	н—он н—он н—он
		$HO \longrightarrow H$ $HO \longrightarrow H$ $HO \longrightarrow H$
		н—он н—он н—он
		н—он н—он н—он
		c cooh c
10		How many moles of methanols in dry HCl reacts with D-glucose?
10	a)	1
	b)	2
	c)	3
		4
1.1	d)	
11	,	Intense absorption band around 1700 cm ⁻¹ indicates presence ofgroup.
	a)	OH
	b)	CN
	c)	C=O
	d)	SH
12		A peak appears around
		vibration.
	a)	3300 cm ⁻¹
	b)	2100 cm ⁻¹
	c)	690 cm ⁻¹
	d)	1700 cm ⁻¹
13		How many signals do you expect in an NMR spectrum of toluene?
	a)	one
	b)	two
	c)	three
	d)	four
14		Nucleic acids on complete hydrolysis give sugar base and
	a)	hydrochloric acid
	b)	acetic acid
	c)	phosphoric acid
	d)	formic acid
15	۵,	Cytosines and thymine are derivatives of
10	a)	Pyrimidines
	b)	piperidine
	c)	pyridine
	d)	purines
16	u)	
10	e.)	Nylon thread contains the polymer
	a)	Polyemide
	b)	Polyamide
	c)	Polyester

	d)	Polyvinyl
17	α)	The substance which are added to the polymers to arrest its degradation are
- /		called
	a)	Stabilizers
	b)	Fillers
	c)	Plasticizers
		Elastomers
10	d)	
18	`	The synthetic polymer is used as artificial skin.
	a)	polyhydroxyalkanoate
	b)	Lexan
	c)	polyurethane
	d)	poly α-cyanoacrylate
19		In Rosenmunds reduction of aldehyde, BaSO ₄ the catalyst.
	a)	Lindlars catalyst
	b)	Nickel
	c)	palladium
	d)	Platinum
20	/	The active methylene group can be selectively oxidized by
	a)	Pd-BaSO ₄
	b)	NaBH ₄
	c)	BH ₃
	d)	SeO_2
	u,	5002

Answer key

Question	Answer	Question	Answer
1	b	11	С
2	d	12	d
3	b	13	b
4	d	14	С
5	С	15	а
6	a	16	b
7	С	17	a
8	a	18	d
9	С	19	С
10	a	20	d