Inter (Part-II)-A-2019

(For all Sessions)

Paper Code 8 4 8 1

Chemistry (Objective Type)

RwP-12-19

Time:	17	Minutes

Marks: 20

NOTE: Write answers to the questions on objective answer sheet provided. Four possible answers A,B,C & D to each question are given. Which answer you consider correct, fill the corresponding circle A,B,C or D given in front of each question with Marker or pen ink on the answer sheet provided.

							1		
, 1.	.1. Keeping in view the size of atoms, which order is the correct one:								
	(A) Mg>Sr	(B)	Ba>Mg	(C)	Lu>Ce	(D)	CI>I		
2.	Tincal is a mineral of:					-/			
	(A) AI	(B)	Si	(C)	В	(p)	С		
3.	Laughing gas is chemica	Hy:				/			
	(A) NO	(8)	NO ₂	(C)	N,O. /	(D)	N,O		
4.	4. Which one of the following hydrogen halides is the weakest acid in ageous solution?								
	(A) HF	(B)	Acı	(C)	HBr /	(D)	HI		
5.	5. Which one of the following sulphate is insoluble in water?								
	(A) Sodium sulphate	(B)	Polassium sulphate	(C)	Zinc sulphate /	(D)	Barium sulphate		
6.	6. Which one of the following is a typical transition metal?								
	(A) Sc	(B)	Y \	(C)	Co	(D)	Ra		
7.	7. Which set of hybrid orbital has planar triangular shape?								
	(A) SP	(B)	SP' \	(C)	SP'	(D)	dSP ²		
8.	Formula of chloroform is:		\						
	(A) CHCI ₃	(B)	CH ₂ Cl ₂	(C)	CH3¢I	(D)	CCI4		
9.	During nitration of benzer	ne, th	ne acitive nitrating agent is						
	(A) NO_3	(B)	NO_2^+	(C)	NO:	(D)	HNO_{i}		
0.	0. For which mechanism, the first step involved is the same?								
	(A) E1 and E2	(B)	E2 and S _u 2	(C)	/S.,1 and E2	(D)	E1 and S _u 1		
1.	Ethanol can be converted	into	ethanoic acid by:						
	(A) Hydrogenation	(B)	Hydration	191	Oxidation	(D)	Fermentation		
2.	The carbon atom of a carl	bony	I group is:						
	(A) SP ² hybridized	(B)	SP hybridized	(C)	SP hybridized	(D)	dSP ² hybridized		
3.	3. Which reagent is used to reduce carboxylic group to alcoholic group?								
	(A) H_2/N_i	(8)	H_{γ/P_1}	(c)	H./Fe	(D)	$LiAlH_4$		
4.	Which one of the followin		3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ner?					
	(A) nylon-6,6		polystyrene		terylene	(D)	epoxy resin		
5.	Micronutrients are require	d in	quantity ranging from:						
	(A) 4-40 gm	(B)	6-200 kg	(C)	6-20 0 gm	(D)	4-40 kg		
6.	Peroxyacetylnitrate (PAN)		4	and	it affects				
	(A) eyes		ears		stomach	(O)	nose		
7. Newspaper can be recycled again and again by how many times?									
	(A) 4	(B)	5	(C)	2	(D)	3		
			633-01	2-A-	φ \				
					10				

(For all Sessions)

RWP-12-19

Chemistry (Essay Type)

Time: 2:40 Hours Marks: 68 Section - I 2- Write short answers of any eight parts from the following. 2 x 8 = 16 i. How do you justify the position of hydrogen at the top of VIIA group? ii. Why does metallic character increase from top to bottom in a group of metals? iii. Why does lime water turn milky with CO, but becomes clear with excess CO, iv. Give equations to represent the given reaction Borax is heated with CVO v NO, is strong oxidizing agent, prove it with two examples vi. P,O, is a powerful dehydrating agent, show it with two examples. viii. What are Siligates? vii What are Silicones? ix. Write four uses of HNO, x. What is Biosphere? xii. What are Isomers? Write isomers of pentane xi. What is BOD? 3- Write short answers of any eight parts from the following. 2 x 8 = 16 i. How acid and base catalyses the reactivity of carboxyl compound? ii. Write two examples of Monodentate ligands. iii Write correct names of compounds by I.U.P.A.C system (A) 4-methyl pentane (B) 3,3,5-Trimethyl hexane iv. Write effect of branching on melting point of alkanes. v. What informations do we get from x-ray analysis of benzene. VL Convert (a) $C_3H_3CI\Rightarrow CH_3-CH=CH_2$ (b) $C_3H_3CI\Rightarrow CH_3-CH_2CH_3OH_3$ vii. Write down structures of (a) Vinyl alcohol (b) Lactic acid viii. Point out difference between symmetric and unsymmetric ehter x. Write four uses of farmaldehyde ix. Write chemistry of chromyl chloride test. xii. Draw structures of Dimer of Carboxylic acid. xi. Draw structures of (a) Alanine (b) Valine 2 x 6 = 12 4- Write short answers of any six parts from the following. i. What is meant by degree of polymerization. Give an example. ii. Write different stages in the manufacture of cement by wet process iii Give trend of oxidizing power of halogens. Write any two factors on which oxidizing power of halogens depends. iv. Write main raw materials used in the production of pulg and paper in Pakistan v. Define saponification number and iodine number of a fat or an oil. vi. How are polyamide resins prepared? Give an example vii. Write any two applications of noble gases ix. Write any two essential qualities of a good fertilizer viii. Write any two methods of preparation of chlorinedioxide Section - II NOTE: Answer any three questions from the following. 8x3=24 5.(a) Discuss the position of hydrogen over IA and VII A group of periodic table. (b) Explain the preparation of Na metal by Down cell 6.(a) What do you mean by corrosion. Explain electrochemical theory in detail. (b) Discuss in detail any two components of the environment 7.(a) Define Isomerism. Explain position isomerism and functional group isomerism with one example each (b) Discuss atomic orbital treatment of Benzene. 8.(a) Explain free radical mechanism for the reaction of chlorine with methane in the presence of Sunlight. (b) Write down important physical properties and uses of phenols. How Bakelite is prepared from it (Phenol)? 9.(a) How will you make the following conversions from ethyl bromide? i. Propane ii. Propanoic acid iii. Ethene 🎉 Ethyl cyanide (b) Describe the mechanism of aldolcondensation reaction? Why does formaldehyde not give this reaction? 634-012-A-