CITY COLLEGE CHEMISTRY- HONOURS

B.SC Semester 3 Internal Assessment (online), under CU 2020-21

Paper: CC-3-6 (Inorganic Chemistry-3) Full Marks – 10

Att

-	ot all the questions.							
1)	Match the geometry to the formula. Which pairing is correct?							
	(a) [BrF ₂] ⁺ ; octahedral			ICl ₄] ⁻ ; te				
	(c) IF ₅ ; trigonal bipyramidal	((d)E	3; trigo	onal bi	pyramida	l	
2) S	SeCN⁻ is an example of -							
	(a) Polyhalide	(b) Pseudohalide						
	(c) Interhalogen compound			(d) No	one of	the above	2	
3)	Which of the following is pyrophosp	phoric ac	id?					
	a) $H_3P_3O_9$ b) $H_5P_3O_{10}$	c) H ₉ P ₂ (O_7	d) H ₄]	P_2O_7			
4)	Boric acid on heating at 150°C gives	s :						
	(a) B_2O_3 (b) $H_2B_4O_7$		(c)	HBO_2	(d)	H_2BO_3		
5)	Silicones resemble inorganic polyme	ers in hav	ving	high %	of			
	(a) Ionic character of Si-O bond			-	n silic	on atoms		
	(c) Controlled hydrolysis	(d) Solu	bili	ty				
6)	F-Xe-F units involve –							
	(a) 2C-3e bonds	(b) 4C-4	(b) 4C-4e bonds					
	(c) 3C-4e bonds	(d) 3C-2e bonds						
7)	Li ₂ CO ₃ on heating –							
')	(a) melts at high temperature	(h) (lecompos	ses to l	LioO & C	Ω_2	
	(c) decomposes to LiC& O ₂		(b) decomposes to Li₂O & CO₂(d) polymerises					
	(e) decomposes to live 32	`	(u) 1	, or j 1110111	.05			
8)	Ionisation enthalpy of X	its I	Elec	tron Affi	nity er	nthalpy.		
	(a) is equal to	(b) is gre	eate	er than				
	(c) is less than	(d) has r	no r	elation to				
9)	Zr and Hf are similar in radius due t	i0 —						
	(a) Lanthanoid contraction	((b) t	he same	atomic	number		
	(c) the same periodic position		` ′	nert pair				
10)	[18-Crown-6] means -						(a)	
10)	a compound with 18 atoms, 6 of wh	ich are m	etal	s		(b) an	(a,	
						(0) 411		

organic polyether ring with 18 atoms, 6 of which are O while the rest C (c) both of the above (d) none of the above