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	SIDDE	IARTI	H INS	TITU	TE O	FEN	GINE	ERIN	IG & '	ГЕСН	INOL	OGY:: P	UTTUR	
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		B.Te	ch I Y	(ear l	Seme		-			ions I	Decem	ber 2018		
								ISTRY						
. .	2.1				()	Comm	ion to	CSE,	CSIT)					
ime:	3 hours											Max. I	Marks: 60	
								RT-A						
(Answer all the Questions 5 x 2 = 10 Marks) a Define effective nuclear charge?													214	
I	b Define cell potential?											2M 2M		
		-			hat typ	be of m	ethods	s used i	n purif	icatior	ı?			2M
c Define brakish water? What type of methods used in purification?d Why benzene does not undergo electrophilic substitution reactions?													2M	
	e What are the limitations of Beer-Lambert's law?													2M
								RT-B	4.0					
				(A	nswer	all Fi		its 5 x	10 = 10	50 Ma	urks)			
							L	NIT-I						
2	Explain	pi- mo	lecula	r orbita	l's of l	benzen			cetch.					10N
							(OR						
3	a Illustrate the postulates of crystal field theory												2M	
	b Explain the crystal field splitting of orbital's in octahedral, tetrahedral and square planar fields in complexes											8M		
	neid	s in coi	npiexe	s			UN	IT-II						
4	Define	Entropy	. Ente	onr oh		-				10 000				10N
4	Define	Ештору	. Enu	opy ch	anges	In reve		and inte DR	eversio	le proc	cess.			TOIN
5	Define				n datai	lahaw		-	dan	mosion				101/
5	Define corrosion? Discuss in detail about chemical or dry corrosion.													10M
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6	Describ disadva			-			oftenir	ng of	water?	What	are t	he advanta	ages and	10M
	uisauva	ntages	<i>J</i> 1 IIIIK	, soua j	process		(OR						
7	a Explain Boiler corrosion.													7M
	b How					nguish	betwe	en hard	l water	and so	oft wat	er?		3M
			-			C	UN	IT-IV						
8	a Give	the pre	parati	on. prc	perties	s & use	es of Te	eflon. I	Nvlon (5. 6.				5M
	a Give the preparation, properties & uses of Teflon, Nylon 6, 6.b Describe a fabrication method used for thermoplastics.												5M	
	OR													
9	a Define addition and Elimination reactions.													2M
	b Expl							ons wit	h exan	nples.				8M
	*							IT-V		-				
10	Explain	the v	vorkin	g prin	ciple	of ato			on sp	ectrom	eter a	nd How	will you	10M
	determi	ne the r	nickel	using b	y AAS	5?) P						1010
							(OR						
11	D 1 ·		1 .				1!	cations	C T 1					10M