Q.P. (Code	: 18HS08	01											R	18	
Reg.	No	:	1	1								1				
8	SIL	DHART	H INS	TITI		FEN		FRIN		TECH	INOI		/ PI	TTID		
	SIL	DIANI	11 1100	,1110		AU)	TON	OMOI	IS)	IECI	mor	.001		TIUK		
		ВTе	ch I Y	ear I	Seme	ster S	upple	menta	rv Ex	amina	ations	Feb-	2021			
						C	HEM	ISTR	Y							
					(Com	mon t	o EC	E, CSI	E & C	SIT)						
Time:	3 ho	ars								í.		М	lax. M	larks: 6	0	
							PA	ART-A	<u>.</u>							
		(Answer all the Questions $5 \times 2 = 10$ Marks)														
1	a	Why cannot thermosetting plastics be reused and restored?														A
	b	Write schrodinger wave equation.														Л
	c	What is f	iternal	energy	1.	Monti	ita	:							2N	Л
	u e	Define sl	udges	and so	ales	Menti	on its	import	ance.						21	1
	C	Denne Si	uuges	and se	ales.		P	ART_F							21	/1
				0	Answe	er all F	live U	nits 5	x 10 =	50 M	arks)					
				(-			Ī	NIT-I		50 10	unito)					
2	я	Explain	the Pi	- mole	cular	orhita	ls of b	utadie	ne			-			51	М
_	b	Effective	nuclea	r charg	$\frac{1}{2}e \& it$	s calci	lation	using	slaters	rule (live an	iv mol	ecule	calculati	ions 51	VI.
		of EFNC.												11		
								OR								
3	а	Explain I	HSAB	conce	pt.										5N	M
	b	Give thes	e mole	cules e	energy	level d	liagrar	n and e	xplain	its ma	gnetic	behav	ior of	NO, CO	. 5N	M
							Ul	NIT-II								
4	a	Derive N	ernst e	quatio	n for t	he cal	culatio	on of co	ell emf	.					5N	VI
	b	Write a n	ote on	solubi	ility pr	oduct.									5N	N
5		VI /h at in	.1	1	0			OR								
Э	a	What is a	electro	platin	g?										2N	N
	D	Baptan occuptating of Nickel and copper.														1
(Write short notes on Break point Chloringtion														
0	a	Write sho	ort note	s on E	Break p	Soint C	hlorn	nation.	1 1			•			4N	A
	D	OD														Л
7	9	a Describe the Zeolite or permutit process for softening of water														
1	h	What are	the ac	lvanta	des ar	iuiii pi	dvant	TOP SOL	f	501W2	iter.				6N	1
		Windt uit	ine ac	i vanta	ges al	iu uisc				ne pro	cess.				41	/1
8	9	Describe	a fabric	nation	method	hosuk	for the	111-1V								
0	b	Give the r	orenara	tion n	roperti	es & u	sec of	Teflon	Nylo	n 6 6					SI	
	~	Sire the j	nopuru	tion, p	roperti		303 01	OR	, INYIO	u 0, 0.					51	YI
9	a	Explain th	ne syntl	hesis o	f Parac	cetamo	1.	UN							51	M
	b	Explain oxidation and reduction reactions with examples.													51	Л
							III	NIT-V							51	
10	a	Derive Lambert's law														A
20	b	Explain n	rinciple	e, instr	ument	ation o	f Fluo	rescenc	e snec	trosco	ov.				SI	AL I
		OR													51	1
11	a	a Explain principle its applications of Scanning Electron microscopy (SFM)													51	л
	b	Give app	licatior	is of L	V- vis	sible S	pectro	sconv			55 0 0p	3 (01			51	A
							r								51	

END