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Time:	3 hour	S																	M	lax	. M	arks	: 60		
						((An	swer	all	Five	-	its 5 x	12 =	= 6() Ma	rks))								
1	a Define Electrode Potential. Derive the Nernst equation for a single electrode potential.													ode	8N	1									
9	b Giv	e a t	orie	ef a	ccoı	ınt (on .(Gluc	ose I	Pote	entio	metric	Sen	sor										4N	1
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2	a What is secondary Battery? Explain the Construction and working principle of Lead acid battery.												6N	1											
	b Write notes on Photo Galvanic cell.												6N	1											
											UNI	T-II													
3	a Write a brief note on particle in one dimensional box.															8N	1								
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4	What is doping? Explain the role of doping on band structures.														6N	1									
1	b Explain the energy level diagrams of CO molecule. Explain its magnetic nature and Bond order.														6N	1									
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5 :	а Ехр	ain	an	у о	ne A	.dd	itio	n Po	lyme	eriza	ation	mech	anis	m v	vith o	exa	mp	le.						6N	1
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6	a Wha	t ar	e c	one	lucti	ng	pol	yme	rs? F	Iow	are	they c	lassi	ifie	d?									5N	1
1	b Des	Describe the preparation, properties and uses of Bakelite.													7N	1									
											UNI	T-IV													
7 :	a Wri	e no	otes	S O1	n Po	tent	tion	netry																6N	1
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8 8	a Exp	ain	the	e pi	inci	ple	of (Gas (Chro	ma	togra	iphy.												4N	1
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OR

10 a Explain in detail about the application of semiconductors?

UNIT-V

a Define Dielectrics? What are the characteristics of Electrical Insulators?

b Write a note on Fullerenes.

b Write the Properties of Nanomaterials.

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