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118	9	
2 H	ours / 50 Marks   Seat No.	
	<ul> <li>Instructions : (1) All questions are compulsory.</li> <li>(2) Answer each next main question on a new page.</li> <li>(3) Illustrate your answers with neat sketches wherever necessary.</li> <li>(4) Figures to the right indicate full marks.</li> <li>(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.</li> </ul>	
		Marks
1.	ttempt any nine of the following :	18
	) Write two ores of copper with their chemical formulae.	2
	) Write the action of water on copper.	2
	e) Write two applications of aluminium.	2
	Define corrosion and write its two types.	2
	e) Why tinned containers are used for storage of food ?	2
	f) Write two points of similarity between sherardizing and galvanizing process.	2
	y) Why metal cladding is clone plane on surfaces only ?	2
	) Distinguish between primary cell and secondary cell. (Two points).	2
	<ul> <li>i) Define the terms :</li> <li>i) Specific conductance</li> <li>ii) Equivalent conductance.</li> </ul>	2
	<ul> <li>i) Define the terms :</li> <li>i) Photo conductive polymers</li> <li>ii) Liquid crystal polymers.</li> </ul>	2
	x) Write two applications of Teflon.	2
	) Distinguish between dielectrics and insulators (two points).	2
		P.T.O.

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Marks

2.	At	tempt <b>any four</b> of the following :	16
	a)	Describe smelting process with neat labelled diagram.	4
	b)	Describe the process of purification of aluminium by electrolytic refining with the help of neat, labelled diagram.	4
	c)	State composition, properties and application of Tinmann's solder.	4
	d)	Write four properties and four applications of urea. Formaldehyde resin.	4
	e)	Describe construction and working of hydrogen oxygen fuel cell.	4
	f)	Explain construction and working of Ni-Cd cell with diagram.	4
3.	At	tempt <b>any four</b> of the following :	16
	a)	Describe the hydrogen evaluation mechanism of immersed corrosion.	4
	b)	Explain four factor affecting rate of immersed corrosion.	4
	c)	Describe the tinning process. Write its two applications.	4
	d)	Write the chemical reaction taking place during charging and discharging of lead acid storage cell.	4
	e)	Explain construction and working of dry cell.	4
	f)	Describe construction and working of Daniell cell.	4