	9 2 0 Hou	rs / 70	Marks	Seat No.								
Inst	tructio	ns: (1)	All Questions	are compulsory.								
		(2)	Illustrate your	answers with neat s	ketcl	hes w	here	ver n	ecess	sary.		
		(3)	Figures to the	right indicate full m	arks.	-						
											M	arks
1.	Atte	tempt any FIVE of the following:									10	
	(a)	Define surface coating.										
	(b)	State two properties and two applications of architectural paints.										
	(c)	Enlist any four ingredients of paints.										
	(d)	Define curing for coating.										
	(e)	Define the term substrate and adherent for coating.										
	(f)	Justify the need of surface pretreatment for adhesion.										
	(g)	Name any two Enamel.										
2.	Atte	Attempt any THREE of the following:										12
	(a)	State any four factors which affects the coating & explain any two in brief.										
	(b)	Differentiate between emulsion paint and solvent paint.										
	(c)	Explain with neat figure the rod coating.										
	(d)	Enlist any four properties and applications of latex adhesives.										
3.	Attempt any THREE of the following:										12	
	(a)	Enlist any	y two plastic mat	terials with their pro	pert	ies a	nd ap	plica	tions	used	l in	

surface coating.

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it is used.

State any four applications of water paints and chemical resistant paint. (b) (c) Compare pressure sensitive adhesives and solvent borne adhesive on the basis of their properties. (d) Explain the diffusion theory with neat sketches. Attempt any THREE of the following: 12 Describe the effect of surface treatment on substrates of high surface energy. (a) (b) State any four properties and applications of hot melt adhesives. (c) Explain the adsorption theory with neat sketches. Suggest suitable adhesives for following joints: (d) rubber – rubber (i) (ii) glass – glass (iii) plastic – plastic (iv) wood – wood (e) Describe the mechanism of adhesion on substrate with neat sketch. Attempt any TWO of the following: 12 Explain solvent containing coating system with its application. (a) (b) Describe the general formulation of interior latex paint and fire retardant paint with one example. Explain with neat figure the spray coating process in brief. (c) Attempt any TWO of the following: 12 Explain with neat figure the reverse roll coating. (a) Enlist any six ingredients in composition of adhesives with the function of (b) each. Explain with neat figure the dip coating process & any one product for which (c)
