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SARDAR PATEL UNIVERSITY

VALLABH VIDYANAGAR

M.Sc. (3rd Semester) Surface Coating Technology Examination (CBCS), October 2016 . PS03CSCT03: Technology of Architectural Coating, Industrial Coatings and Construction Chemicals

Ti	me: 2:00 pm to 5:00 pm	Thursday, 27 th (October, 2016	Marks: 70	
Q.1	Choose the correct Answer from	om the Followings	5:	₩	
1.	What is ideal PVC for alkyd based semi glossy defense paint?				
	a) 20	b)	22		
	c) 25	d)	30		
2.	Dosage of W&D Agent on finish paint in exterior paint is				
	a) 1.0 – 2.0 %	b)	0.01 - 0.02 %		
	c) 0.05 - 0.15 %	d)	4.0 – 5.0 %		
3.	Commercial latexes have Tg ° C			[01]	
	a) 5 – 25	b)	-15 to 5		
	c) 0 - 10	d)	None of these	[01]	
4.	Among following which should not be a part of 'STIPPLE FINISH'				
	a) NC ½ Sec	b)	Xylene		
	c) DCO 60% in Xylene	d)	Epoxy EEW 450		
5.	Etch Primer are used on which s	surface		[01]	
	a) Cement	b)	Copper		
	c) Aluminum	d)	lron	F0.43	
6.	Stainless Steel Contains Cr %		100/	[01]	
	a) 8%	ŕ	18%		
	c) 28 %	d)	38%	F0.43	
7.	are used as pumping admixture			[01]	
	a) Sugars	ŕ	Lignin		
	c) Borax	r	Organic emulsion of		
8.	Pick the Odd one with respect to			[01]	
	a) Air entraining admixture	•	Corrosion inhibitors a		
Q.2	c) Coloring admixture Answer Any Seven of the Foll	d)	Water condensation		
Q,Z		-		[14]	
1.	Write a note on steel and plastic substrate on which paint applied.				
2.	What are different methods by which film formation is executed.				
3.	Explain thickners and biocides as additives in water based emulsion paint.				
4.	Write formulation for flamboyant finish.				
5.	Explain behavior of Paint on wo	oden substrate.			

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6.	Write formulation for NC Putty.	
7.	Discuss important propertites of primer.	
8.	What is pumping admixture?	
. 9.	Write the note on gas forming admixture.	
Q.3 (a)	What should be the essential requriments of primer for ferrous substrate? Write	[06]
	formulation for Zinc Chrome Yellow Primer.	
(b)	What is hammer tone finish, write its formulation explaining their important properties.	[06]
	OR	
(b1)	Write formulation for undercoat Olivegreen shade.	[03]
(b2)	Write formulation for Oleoresinous varnish.	
Q.4 (a)	Explain in detail Powder Coating manufacturing in sequence. Write in detail about	[06]
(b)	two types of resin used in thermoplast and thermoset powder coating system. Discuss about NC polymer, Active, Intert and Diluent solvent in NC lacquers. Write	[06]
(**)	formulation of NC primer.	[00]
	0.00	
	OR	
(b)	Distinguish between cement primer, wood primer and metal primer by giving suitable	[06]
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