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2.	324 2	2												
3	Ho	urs	/	70	Marks	Seat	No.							
	Instru	ctions	_	(1)	All Questions	are Comp	oulso	ry.						
				(2)	Answer each	next main	Que	estio	n o	n a	ne	wŗ	oage	e .
				(3)	Illustrate your necessary.	answers	with	neat	t sl	etch	ies	wh	erev	ver
				(4)	Figures to the	right ind	icate	full	m	arks.				
				(5)	Assume suitab	ole data, i	f nec	essa	ry.					
				(6)	Mobile Phone Communication Examination I	n devices		•						
													N	Marks
1.		Atter	npt	any	FIVE of the	following	:							1(
	a)	Defin	e tl	ne te	rm colour.									
	b)	Name	e ar	y fo	ur in-organic y	ellow pig	ment							
	c)	List	prin	ciple	'ores' of red	oxide pigi	ment.							
	d)	Class	ify	'Blu	e' pigments									
	e)	Name	e ar	ıy tw	o organic and	in-organic	gre	en p	oign	nent.				
	f)	List	any	four	novelty pigme	ents.								
	g)	Write	m	olecu	lar formulae fo	or PMA a	nd P	TMA	A to	ones.				
2.		Atter	npt	any	THREE of the	he followi	ng:							12
	a)	Expla	nin	conc	ept of undertor	ne and ma	sston	ie.						
	b)	Comp	pare	Har	nsa yellow and	Benzidine	e yel	low.						
	c)	Write	pr	opert	ies and applica	ntion of m	ixed	met	al	oxid	e.			
	d)	Write	_	opert	ies and applica	ntion of pl	nthalo	ocya	nin	e gro	een	l		

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3.		Attempt any <u>THREE</u> of the following:	12
	a)	Explain concept of high performance yellow pigment with examples.	
	b)	Compare natural and synthetic red oxide pigment.	
	c)	Write properties and application of chrome oxide green pigment.	
	d)	Compare leafing and Non-leafing aluminium pigment.	
4.		Attempt any THREE of the following:	12
	a)	Explain munsell colour system with diagram.	
	b)	Explain zinc chrome used in corrosion resistance points.	
	c)	Draw the structure of Toluidine Red and Signal Red.	
	d)	Draw the structure of phthalocyanine blue with replaceable hydrogen atom.	
	e)	Write process to determine under tone and mass tone of pigment.	
5.		Attempt any <u>TWO</u> of the following:	12
	`	Explain the concept 'AE' in details for shade metaling with	
	a)	Explain the concept ' ΔE ' in details for shade matching with formulae.	
	a)b)		
	,	formulae. Write properties and application of 'Hansa Yellow' with it's	
6.	b)	formulae. Write properties and application of 'Hansa Yellow' with it's structure. Describe the process for Red oxide manufacturing with it's	12
6.	b)	formulae. Write properties and application of 'Hansa Yellow' with it's structure. Describe the process for Red oxide manufacturing with it's application.	12
6.	b) c)	formulae. Write properties and application of 'Hansa Yellow' with it's structure. Describe the process for Red oxide manufacturing with it's application. Attempt any TWO of the following: Explain the term floatation, flocculation and flooding with it's	12
6.	b) c) a)	formulae. Write properties and application of 'Hansa Yellow' with it's structure. Describe the process for Red oxide manufacturing with it's application. Attempt any TWO of the following: Explain the term floatation, flocculation and flooding with it's remedies.	12
6.	b)c)a)b)	formulae. Write properties and application of 'Hansa Yellow' with it's structure. Describe the process for Red oxide manufacturing with it's application. Attempt any TWO of the following: Explain the term floatation, flocculation and flooding with it's remedies. Write process to compare hiding power of dyes and pigments. Draw the general flow diagram for manufacturing of aluminium	12

Marks