

## 14115

3 Hours/100 Marks			Seat No.								
	Instructions	s:(1) All question (2) Answereac (3) Illustrate you necessary. (4) Figures to t (5) Assume su	<b>ch</b> next main q our answers w the <b>right</b> indic	questi rith <b>ne</b> rate <b>fu</b>	ion oi e <b>at</b> sl	ketcı arks	hes	_		er	
										MA	RKS
1.	Answer any five	:							(	5×4=	20)
	a) Differentiate be	etween dye and c	olour.								
	b) Define: i) hue,	, ii) chroma.									
	c) What is chrome	ophore ? Name th	ne types of chr	romo	phore	es.					
	d) Explain factors	governing absor	ption of light.								
	e) Distinguish bet	tween dyes and fr	agments.								
	f) Name any four	r dyes based on tl	heir chemical	struc	ture.						
	g) Give the method	od of preparation	of H-acid.								
2.	Answer any two	:							(	2×8=	:16)
	a) Indicate with re	eactions, prepara	tions of (i) an	azod	yes a	and (	(ii) a	nitro	dye	S.	
	b) i) Explain the	need for preparat	ion of syntheti	ic dye	es.						
	ii) What is the i	importance of inte	ermediates in	dyes	tuff ir	าdนร	try ?	?			
	c) Explain additiv	e and substractiv	e colour mixir	ıg.							
3.	Answer any two	:							(	2×8=	:16)
	a) What is colour	index ? Explain i	ts significance	€.							
	b) Give preparation i) Gamma-acid	•	_	volved	d) of fo	ollow	ing ir	nterm	nedia	ates.	
	c) i) What are rea	active dyes ?									2
	ii) Give prepara	ation of cold bran	d reactive dye	es.							6

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		IVIARKS				
4.	Answer any two:	2×8=16)				
	a) i) What are HE and ME brand reactive dyes?	2				
	ii) Explain with the help of reactions, preparation of ME brand reactive dy	/es. <b>6</b>				
	b) Explain the relation between chemical structure and fastness properties					
	c) i) Define a pigment. Is carban black, considered as organic pigment or inorganic?	2				
	ii) Explain giving examples, classification of inorganic pigments.	6				
5.	Answer <b>any two</b> :	2×8=16)				
	a) Describe with the help of reactions preparation method of anthraquinone of					
	<ul><li>b) Write preparation method (indicating reactions involved) for</li><li>i) J-acid, ii) Peri acid.</li></ul>					
	c) i) Define a dye.	2				
	ii) Classify dyes based on method of application.	6				
6.	Answer <b>any two</b> :	2×8=16)				
	<ul> <li>a) Explain destructive distillation of coal tar and uses of by-products obtained during this process in dyestuff manufacturing.</li> </ul>	ed				
	b) Describe modern theory of colour chemical constitution.					
	c) i) Explain the mechanism of dyeing.					
	ii) Explain the nomenclature of dyes.					