22458

	3124 Ho		/	70	Marks	Seat	No.								
Instructions – (1)			(1)	All Questions are Compulsory.											
				(2)	Answer each	next main	Que	stio	n c	on a	n ne	ew	pag	ge.	
				(3)	Illustrate you necessary.	r answers	with	nea	t sl	cetc	hes	wl	nere	ever	
				(4)	Figures to th	e right ind	icate	ful	l m	ark	s.				
				(5)	Assume suita	ible data, if	f nec	essa	ıry.						
				(6)	Mobile Phon Communicati Examination	on devices		-							
														Ma	rks
1.		Atter	npt	any	FIVE of the	e following	:								10
	a)	State the purposes of scouring.													
	b) State effect of mercerization on dye uptake.														
	c) State any two properties of Direct dyes.														
d) List the chem				chem	nicals required for vat dyeing on cellulosics.										
e) State any two			y two	properties of Pigments.											
	f)	Draw	a	neat	labelled diagr	am of pack	kage	dye	ing	ma	achi	ne.			
	g)	State	any	y two	o limitations of	of Natural of	dyes.								

2. Attempt any <u>THREE</u> of the following:

- a) Explain the affinity and substantivity properties of dye.
- b) Identify the problems and remedies in direct dyeing for cotton.
- c) Suggest the stepwise procedure for vinyl sulphone reactive dyeing of cotton fabric on Jigger machine.
- d) Describe the advantages and disadvantages of vat dyes.

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Attempt any THREE of the following: 12 Explain the working procedure and precautions to be taken a) for Jigger dyeing machine. Suggest any two after treatments and their procedure for direct b) dyed fabric. c) Identify any two problems and their remedies in sulphur dyeing. d) Classify Vat dyes based on their method of applications. Attempt any THREE of the following: Define % Expression of Padding mangle and calculate % a) Expression if Weight of Dry fabric - 2 gms. Weight of wet fabric - 3 gms. (after padding) b) Classify the Reactive dyes based on its application methods. Explain the advantages and limitations of pigments for c) coloration of Textiles. d) Compare pigments with dyes for Textile coloration. e) Describe the method of dyeing woolen fabrics with acid dyes. Attempt any TWO of the following: 12 With neat sketch describe the construction and working of a) winch dyeing machine. b) Explain the pre mordanting and post mordanting application methods for Natural dyes. Classify the Acid dyes and explain their properties. c) i) Compare Acid dyes with basic dyes in two points. ii)

Marks

12

12

6. Attempt any <u>TWO</u> of the following:

- a) Justify that reactive dyes are commonly used for cellulosic fabric colouration.
- b) Explain the stepwise procedure for dyeing of cellulosics with vat dyes and suggest the precautions to be taken.
- c) Describe the stepwise procedure for application of Azoics on cotton fabric. Also write the advantage of this process.
