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3	Ho	ours /	100) Marks	Seat	No.						
Instructions – (1)			(1)	All Questions	are Comp	oulsory.						
			(2)	Answer each	next main	Questi	on on	a n	ew	pag	e.	
			(3)	Illustrate your necessary.	answers	with ne	eat ske	etches	s wl	here	ver	
			(4)	Figures to the	right ind	icate fi	ıll ma	rks.				
			(5)	Mobile Phone, Communication Examination H	n devices	•						
]	Mar	ks
1.		Attempt	any	<u>FIVE</u> of the	following	•						20
	a)	Give cla	classification of finishing with one example of each.									
	b)	Define t	fine the following terms with one example each.									
		(i) % Expression										
		(ii) %	Add-	on								
	c)	Explain	the importance of drying and curing of fabrics in resin									

- c) Explain the importance of drying and curing of fabrics in resin finishing.
- d) Describe the objects of OBA finishing. Write the chemical structure of any one OBA used for cotton fabrics.
- e) Explain the mechanism of fluorescence.
- f) State the conditions for application of OBA on cotton and polyster using exhaust method of application.
- g) Write advantages and disadvantages of nanofinishes over conventional finishes.

- a) Describe the objects of finishing. Compare between exhaust and pad method of application for finish application.
- b) Give the classification of resins. With structures, explain the application procedure and important properties of DMDHEU resins.
- c) Explain the mechanism of flame retardancy. State the various factors affecting flame retardancy of textiles.

3. Attempt any TWO of the following:

- a) Explain mechanism of creasing and resin finishing.
- b) With a neat labelled diagram, explain the construction and working of starter.
- c) What is 'Limiting Oxygen Index'? State the importance of the same. Explain the Inclined method of evaluation of flame retardant finished textile.

4. Attempt any TWO of the following:

- a) Describe mechanism of burning of textile fibers. Explain thermal behaviour of cotton, polyester, Nylon and Acrylic fibre.
- b) State the objectives of calendering, sueding, sanforinising and stentering.
- c) Enlist and justify the limitations of resin finishing? What are eco-friendly cross linking agents? Give two examples and comment on the useability of the same in textile finishing industry.

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5. Attempt any TWO of the following:

- a) Write essential requirements of a good antimicrobial finish. Describe any one method to test efficiency of antimicrobial finishing.
- b) Classify softeners and stiffeners. Explain the method of application of reactive softener on cotton fabric.
- c) Differentiate between water repellent and waterproof finishes. Enlist the parameters affecting the process of Biopolishing.

6. Attempt any TWO of the following:

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- a) Explain the objects of softeners and stiffners. Write the mode of action of softeners and stiffners.
- b) Explain the mechanism of antimicrobial finishing of textiles. Also describe the process of moth proofing of wool.
- c) Describe the method for evaluation of softness and stiffness of fabrics. Also write the types of fabrics which requires application of softner and stiffner.