Model Question Paper-1/2 with effect from 2022-23 (CBCS Scheme)

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Fourth Semester B.Tech. Degree Examination
BTX401: CHEMICLA PROCESSING OF TEXTILES - II

TIME: 03 Hours **Max. Marks: 100**

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.
02.
03.

		Module -1	*Bloom's Taxonomy Level	Marks
Q.01	a	Classify disperse dyes. State the properties of disperse dyes	L2	7
	b	Write the various after treatments given to synthetic dyed goods	L3	7
	c	Outline the method of dyeing and dyeing conditions of P/W blend	L1	6
		OR		
Q.02	a	Classify natural dyes. State the advantages and limitations of natural dyes	L2	7
	b	Describe the method of polyester dyeing by HTHP method	L2	7
	c	Write the various speciality chemicals and dyes used for garment dyeing	L2	6
		Module-2		
Q. 03	a	Explain the various precautions to be taken for effective dyeing of garments	L2	7
	b	Write the working principles of dyeing machineries for yarns and fabrics	L2	7
	c	Outline the modern developments in dyeing machineries	L2	6
		OR		
Q.04	a	Explain the different types of dyeing practices for various types of garments	L2	7
	b	With a neat sketch, write the working of Jigger dyeing machine	L2	7
	c	Outline the importance and method of determination of K/S value	L2	6
		Module-3		
Q. 05	a	Explain the constituent and characteristics of printing paste	L2	7
	b	Differentiate between direct, discharge and resist styles of printing	L2	7
	c	Outline the various squeeze systems used in rotary screen printing	L2	6
		OR		
Q. 06	a	Describe the mechanisms of transfer printing	L2	7
	b	Differentiate between fully automatic flat screen printing and rotary screen printing	L2	7
	c	Write the salient features of textile digital printing	L2	6

Module-4				
Q. 07	a	State the objects of finishing. Outline the various finishing agents used and their functions	L1	7
	b	With the help of neat sketch, explain the working of 7- bowl swizzing calendars machine	L2	7
	c	Discuss the mechanism of anti - shrinking of cotton	L2	6
OR				
Q. 08	a	Classify various finishes based on functional, aesthetic and chemicals	L2	7
	b	State the various types of cross linking agents and its suitability	L1	7
	c	Write the mechanism of crease formation	L2	6
Module-5				
Q. 09	a	Differentiate between water prof and water repellent finishes with examples	L2	7
	b	Explain briefly, the various finishing treatments given to silk fabrics	L2	7
	c	Write the method of de-lustering of regenerated textiles	L2	6
OR				
Q. 10	a	State the need of heat setting. Outline the mechanism of heat setting	L1	7
	b	Explain the various types of fire retardant agents and its applications	L2	7
	c	Write the relation between soil release and anti-static finish	L2	6