Entry No: 2013TT10965

TXL 141 Technology of Textile Preparation and Finishing

Mi	inor 1 Max Marks-20	2.30-3.30 pm/14-02-2015/VLT1
J.	 Indicate whether the given statement is true or fals. a) In case of polyester, singeing is carried out a b) The width control of a cotton fabric during of with expander rolls than with pin or clips of a c) Absorbency of cotton improves after beaching 	fter dyeing. ontinuous tension mercerization is better a stenter.
. ⊋ .	M:L ratio in a padding process would be approxim a) 1:10 b) 1:20 c)	ately: (0.5) 1.:30 d) 1:1
\X.	Desizing of a textile material having a non-starch s a) Acid b) enzyme c) Liss	size can be carried out using (0.5) apol N d) sodium persulphate
4	TEGEWA test is used for determining the efficiency a) Bleaching by desizing c)	
fs.	Water absorbency of wool will improve after a) Carbonization b) scouring e)	bleaching d) other (specify)
/6 .	Mercerization process treatment time would be (in 1-2 b) 5-10 c) 30-40 d)	other (specify) (0.5)
3/	On degumming, Moisture regain of silk will a) Increase by decrease c) rem	(0.5) tain same d) other (specify)
8.	State whether the following statement are true or fa a) Mercerization and scouring of cotton can be b) In mercerization of cotton crystallinity actua c) Winch is a better machine for processing of d) OBAs are generally applied from bleach bath	combined. Ily decreases. knitted fabrics as compared to Jigger.
9.	Singeing is generally followed by desizing especi free protruding fibres in warp threads would generally carried out in the first place. Comment.	ally in case of cotton. After desizing, the create problems for which singeing is (1)

	Discourse that and the second		
17	Discuss the mechanism of sodium silicate as stabilizer in H2O2 bleaching. Wha	it are it	
	drawbacks?	(1	
Jr.	What is the reason for increase in strength of cotton fibre upon mercerization?	(1	
12	What is HLB value concept? You have two surfactants with HLB values of 12 and		
,	respectively. How would you create a system with an HLB value of 13?	(2)	
13.	What will be the effect of water hardness and presence of heavy metals in bleaching with		
1.	(a) Sodium Chlorite (b) Hydrogen peroxide	(2)	
J14.	Pectinase enzyme has been successful in scoring of cotton even though it does not attack		
	wax. Comment.	(1)	
15/	Following recipe is to be used for cotton scouring:	(2)	
	NaOH: 4% (owf). However, the same recipe in another unit of concentration turns out to		
	be 2 gpl NaOH. Find out the M:L ratio.		
16.	A blend of cotton and viscose is to be mercerized. Draw a process sequence with suitable		
	conditions and proper justification.	(2)	