

THE TEXTILE ASSOCIATION (INDIA)
A.T.A. PART II – EXAMINATION 2020
PAPER A2.3
PRINCIPLES OF TEXTILE WET PROCESSING

Date: 26.12.2020

Marks: 100

Time: 2.00 pm to 5.00 pm

Instructions:

1. Attempt any SIX Questions out of which Q.1 is compulsory
 2. Answer each next main question on a new page
 3. Figures to the right-hand side indicates full marks
 4. Illustrate your answers with sketches and flow charts wherever necessary
 5. Use of non-programmable electronic pocket calculator permissible
 6. Mobile and any other communication devices and books etc. are not allowed in exam hall
 7. Assume suitable data wherever necessary
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Q1	Answer in Two lines	2X10
	i What is fibroin?	
	ii What is shearing?	
	iii What is sericin?	
	iv What is flame retardancy?	
	v What is bleaching?	
	vi What is discharge printing?	
	vii What is water repellency?	
	viii Define color fastness to rubbing?	
	ix What is hydrophobicity?	
	x What is polyamide?	
Q2	a Describe dyeing of nylon fabric using reactive dyes.	08
	b Describe degumming of silk.	08
Q3	a Discuss dyeing of cotton using direct dyes.	08
	b Discuss the process of scouring of wool.	08
Q4	a Discuss dyeing of polyester fabrics using carriers and state the demerits.	08
	b Discuss the dyeing of nylon using acid dyes.	08
Q5	a Discuss dyeing of Nylon yarn using metal complex dyes.	08
	b Discuss dyeing of acrylic fibers using cationic dyes	08

- Q6** a Write a note on 'resist style printing of cotton fabric. **08**
 b Discuss shrink proof finishing of cotton fabric. **08**
- Q7** a Describe fabric finishing with a flow diagram. **08**
 b Differentiate calendaring and decatization process of finishing. **08**
- Q8** Write short note on the following: **16**
 a) Material to liquor ration (MLR)
 b) Screen Printing
 c) Jigger Dyeing Machine
 d) Classification of dyes based on application methods
