	(4)					
3.	Describe the operation of kier in detail with a neat diag	ram. 20				
	Unit-III					
4.	Discuss various methods of bleaching of cotton and synthmaterials.	netic 20				
5.	Describe any two machines used for mercerisation.	20				
Unit-IV						
6.	Write a detailed essay on reactive dyes.	20				
7.	Discuss the features and dyeing method in winch dy machine with a neat sketch.	eing 20				
	Unit-V					
8.	Write down a descriptive essay on milling operation to for woollens.	ised 20				
9.	Make a detailed review of various wet processes used silk.	for 20				

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Printed Pages: 4					8358		
			BT-3/D-	13	day,		
,	1	EXT	TLE CHEMICAL	PROC	CESSING-I		
			Paper-TT-209-	A Opt.	-I		
Time allowed: 3 hours]					iximum marks : 100		
Not	e: At	tempt	one question from e	ach un	it.		
			Unit-I	•			
1.	(a)	The step following desizing is:					
		(i)	Bleaching	(ii) :	Scouring		
		(iii)	Singeing	(iv)	Mercerisation		
'	(b)	Kitties are removed in processing in:					
		(i)	Desizing	(ii) :	Singeing		
		(iii)	Grey checking	(iv)	Bleaching		
	(c)	Singeing of cotton fabrics results in:					
		(i)	Improved strength	•			
	-	(ii)	(ii) Decreased crease recovery				
		(iii) Increased bending rigidity					
, ,		(iv) Improved performance during printing					
	(d)	Which of the following is most difficult to remove it desizing:					
		(i)	Starch	(ii) V	Vax		
		(iii)	Impurities	(iv) I	atty materials		
	(e)	NaO	NaOH mainly acts as:				
		(i)	Bleaching agent	(ii) S	Scouring agent		
		(iii)	Desizing agent	(iv)	Mercerizing agent		

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(2)

(f)	The active bleaching age	ent in sodium hypochlorite
	solution is:	

(i) OCI-

(ii) Cl,

(iii) O-

(iv) Cl-

(g) Which of the following equipment is suitable for continuous bleaching of cotton:

(i) Kier

(ii) J-box

(iii) Pad roll machine

(iv) Jumbo jigger

(h) Damage to cotton due to bleaching cannot be estimated by:

(i) Methylene blue absorption

(ii) Barium Number

(iii) Cuprammonium fluidity

(iv) Tensile strength

(i) Which of the following mercerizing machines imparts maximum ensure to cotton fabrics on mercerisation:

(i) Pad-chain

(ii) Pad-chainless

(iii) Padless-chainless

(iv) None of above

(j) Thermodynamically dyeing is:

(i) Endothermic

(ii) Exothermic

(iii) Athermic

(iv) Exothermic in the beginning and turns endothermic after sometime

(k) Direct dyes under the conditions of dyeing are:

(i) Anionic

(ii) Cationic

(iii) Non-Ionic

(iv) Amphoteric

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(3)

(l) Wool is dyed at a temperature of:

(i) 50-60°C

(ii) 80-90°C

(iii) 100-110°C

(iv) 120-130°C

(m) Jet-dyeing machine is based on principle of:

(i) Dye liquor stationary - fabric moving

(ii) Dye liquor moving-fabric stationary.

(iii) Both dye liquor and fabric moving

(iv) Both dye liquor and fabric stationary

 (n) During carbonization of wool, the impurities removed are:

(i) Vegetable Matters

(ii) Fatty matters

(iii) Sulphonic acid groups

(iv) Carboxylic acid groups

(o) Degumming of silt is mainly done to:

(i) Add fibroin

(ii) Remove fibroin

iii) Add sericin

(iv) Remove sericin

(p) Name the most popular singeing method.

(q) List out naural Impurities of cotton.

(r) Give objective of heat setting of polyester.

(s) Which colors are known as Ice colors?

(t) Name the processes carried out on padding mangle.

 $1 \times 20 = 20$

· Unit-II

Discuss various methods of desizing of grey cotton fabric.

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[Turn over