

xv) Write down limitations of kier.

### SECTION-C

**Note:** Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Explain the construction & working of pad chainless machine with a schematic diagram.
- Q.4 Explain the working of tight & slack rope washing machines.
- Q.5 Explain the process of Bleaching of cotton with Hydrogen peroxide & sodium hypochlorite & differentiate between full bleach & half bleach.
- Q.6 i) Explain the process of gas singeing with a diagram.  
ii) Compare the merits & demerits of gas singeing & roller singeing.
- Q.7 Write a short note on  
i) Stenter Drying  
ii) Effect of pH on Bleaching.

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### 3rd Sem. / Textile Processing

#### Subject : Technology of Bleaching - I

Time : 3 Hrs.

M.M. : 100

### SECTION-A

**Note:** Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) Name the most preferred bleaching agent for cotton fibres.
- b) What are added impurities?
- c) Give examples of Natural impurities present in cotton.
- d) Define shearing & cropping?
- e) What is Grey Checking?
- f) Define sizing?
- g) Define Singeing?
- h) Give example of enzymes used for desizing?

- i) What is Boiling off.
- j) What is FBA.
- k) Define the term semi bleach.
- l) Write the formula for Bleaching Powder.
- m) Write down the formula of sodium chlorite.
- n) Name any two machines used for scouring?
- o) What is role of wetting agent.
- p) Define souring.
- q) Who invented Mercerisation
- r) What is the chemical & condition used for mercerisation.

### SECTION-B

**Note:** Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) Suggest recipe & process conditions for Acid desizing?
  - ii) What are the advantages & disadvantages of Rot steep method.

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- iii) What are the properties of Hydrogen peroxide.
- iv) List some physical & chemical changes on cotton during mercerisation.
- v) Write down merits of counter current washing.
- vi) Write down the importance of pretreatments.
- vii) Explain the role of stabilizer in peroxide bleaching?
- viii) Write down the process conditions of acid desizing.
- ix) Discuss emulsification.
- x) Write down process of sodium chloride bleaching.
- xi) Write down any test to determine desizing efficiency.
- xii) Write a short note on Kier.
- xiii) Discuss roller singeing.
- xiv) Write down a short note on scouring of colored woolen goods.

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