

- Q.3 i) Discuss in detail the process of enzymatic designing.
 ii) Explain construction and working of cylinder drying machine.
- Q.4 Discuss all the hydrolytic methods (Rot steep, acid steep and enzymatic designing) of designing and compare them with one another.
- Q.5 Describe the principles and various chemicals involved in scouring of cotton. Also explain the working of high pressure kier.
- Q.6 Discuss in detail any two drying machines used in the textile chemical processing industry.
- Q.7 Explain the construction and working of pad chain mercerizing machine.

(120) (4) 122633/032633

No. of Printed Pages : 4 122633/032633
 Roll No.

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 any two constituents of raw cotton.
 b) What is singeing?
 c) Object of scouring.
 d) Name any two natural impurities of cotton.
 e) What is the purpose of designing.
 f) Explain the process of scouring.
 g) What is squeegeing.
 h) Write two advantages of gas singeing.
 i) Write two disadvantages of plate singeing.
 j) At what stage scouring is done.

(1) 122633/032633

- k) Name any two impurities which are removed is scouring.
- l) Name any two singeing methods.
- m) Name any two parts of J-box machine.
- n) At what temperature H_2O_2 bleaching is done.
- o) Name any two drying machines.
- p) Object of mercerizing.
- q) Name most preferred designing method.
- r) Name any two parts of "kier"

SECTION-B

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

- Q.2
- i) Discuss in brief about natural impurities in cotton.
 - ii) What is saponification, discuss in detail?
 - iii) Write short note on gas singeing.
 - iv) Distinguish between close kier and open kier.
 - v) At what PH and temperature should hypochlorite bleaching be done.

(2) 122633/032633

- vi) Discuss in brief about various defects in bleaching and their removal.
- vii) Write any four changes observed in cotton fabric after mercerization.
- viii) Write briefly the process of chlorite bleaching.
- ix) List out advantages of sodium chlorite bleaching.
- x) Explain the role of stabilizer in peroxide bleaching.
- xi) Describe the working of vapour loc machine
- xii) Describe the working of tight rope washing machine.
- xiii) Describe briefly acid designing method.
- xiv) Write short note on scouring of coloured woven goods.
- xv) List out various properties of bleaching powder.

SECTION-C

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

(3) 122633/032633