

xiv) Differentiate between scouring and mercerization.

xv) What are anti-pilling agents?

SECTION-C

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

Q.3 Classify enzymes used for desizing. Discuss the process and mechanism of enzymatic desizing.

Q.4 What are fats and waxes discuss various action involved in scouring of cotton.

Q.5 Discuss the following:

(a) Acid desizing

(b) Tests for mercerization

Q.6 What are softeners? Discuss silicone softeners in detail.

Q.7 Describe various chemical and auxiliaries required in bleaching with their importance.

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3rd Sem. / Textile Processing

Subject : Textile Auxiliaries & Chemicals

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

Q.1 a) Define printing.

b) What are carries?

c) What are stiffeners?

d) What is role of deformers?

e) What are surfactants?

f) What is the role of dyeing auxiliaries?

g) Which is removed in bleaching?

h) Which is most versatile method of desizing?

i) What is the role of thickeners?

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- j) What is the role of surface active agents?
- k) What is OBA?
- l) What is THPC?
- m) Name one chemical which is water repellent.
- n) What is a wetting agent?
- o) What are antistatic agents?
- p) Give the name of universal bleaching agent for textiles.
- q) For which textile fabric peracetic acid is used as a bleaching agent.
- r) During which pretreatment process kitties are removed?

SECTION-B

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

- Q.2
- i) What is dye fixing agent?
 - ii) What is leveling agent?

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- iii) What is the role of dispersing agent in dyeing of polyesters?
- iv) Mention the desirable characteristics for a carrier.
- v) Write note on anti-static agents.
- vi) Which chemical auxiliaries are used during bleaching process?
- vii) Give the reaction condition for sodium hypochlorite and hydrogen peroxide bleaching.
- viii) Why cationic dye fixing agents are used in dyeing of cellulose with direct dyes?
- ix) Write note on desizing and required agents.
- x) What is migration inhibitor?
- xi) Differentiate between flame proofing and flame retardancy.
- xii) Give the essential requirement of surfactant.
- xiii) Mention the desirable characteristics of good softener.

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