

SECTION-C

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

- Q.3 Briefly discuss the different pre-treatments performed over cotton textiles.
- Q.4 Discuss the different methods of dyeing of polyester with disperse dyes.
- Q.5 Discuss in detail the application of reactive dyes on cotton textiles.
- Q.6 Explain the jigger dyeing machine with neat & clean diagram.
- Q.7 Explain the various methods of dyeing of acrylics with basic dyes with recipe, and condition details.

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Roll No.

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3rd Sem. / Textile Technology

Subject : Textile Chemistry - I

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 a) What do you mean by pre-treatment in textile processing?
- b) What is the purpose of scouring?
- c) Why bleaching is done before dyeing?
- d) What do you mean by degumming of silk?
- e) How scouring is done in polyester?
- f) What are the objectives of mercerization?
- g) What is universal bleaching agent?
- h) Which machine is used for polyester dyeing?
- i) Which dyes are most suitable for cotton fabrics?

- j) Which dyes are preferred for polyesters?
- k) Metal-complex dyes are used for dyeing which fibres?
- l) Acrylics are dyed with _____ dyes.
- m) Which material is dyed in Jet dyeing machines?
- n) Jigger is preferred for the dyeing of _____ material.
- o) Viscose rayon can be dyed with dyes?
- p) Synthetics are bleached with _____ oxidizing agent.
- q) Padding mangle is used for _____ dyeing (Exhaust or continuous)
- r) What are modified basic dyes?

SECTION-B

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

- Q.2
- i) Discuss the impurities present in the cotton.
 - ii) Describe the sequence of pre-treatment process for cotton textiles.
 - iii) What is carbonization of wool?

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- iv) Discuss the complete pre-treatment of polyamides.
- v) Explain the Hydrogen peroxide bleaching of cotton with recipe & application conditions.
- vi) Discuss the mechanism of application of vat dyes on cotton.
- vii) Classify the different dyes used in textiles.
- viii) Explain the dyeing of cotton with sulphur dyes.
- ix) Discuss the dyeing process of cotton with reactive dyes.
- x) What is mercerization and how it is done on cotton textiles?
- xi) Discuss the dyeing of acrylics with basic dyes.
- xii) Discuss the pre-treatment process of viscose rayon.
- xiii) Explain the impurities present in the raw wool.
- xiv) Explain the different methods of silk degumming.
- xv) Explain the bleaching of wool in brief.

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