

xv) Explain TDS and suspended solids in the context of effluent.

No. of Printed Pages : 4

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SECTION-C

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

- Q.3 With relevant equations and calculations discuss the quantitative estimation of major bleaching agents.
- Q.4 Write the detailed procedure for testing wash fastness of coloured textiles.
- Q.5 Explain the concept and method to find out Copper number of a given cotton fabric.
- Q.6 Write notes on -
- Perspiration fastness.
 - Sublimation fastness.
- Q.7 Give an account of method for analysis of fresh water and effluent.

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5th Sem. / Text Proc

Subject : Textile Chemical Testing

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1
- Write the burning test for cotton.
 - What is acru wool?
 - Name the solvents in which nylon dissolves.
 - In what concentration of sulphuric acid does cotton dissolve?
 - Name the chemical in which only acrylic dissolves.
 - Define Copper number.
 - Barium activity number is a _____ test. (qualitative/quantitative)
 - What should be the Fluidity value of a bleached undergraded cotton fabric?

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- i) What do you understand by colour fastness?
 - j) sodium hypochlorite is a _____ agent. (oxidizing/reducing)
 - k) What could be the main reason for degradation in polyester?
 - l) How will you quantify effluent?
 - m) What for is laundrometer used?
 - n) Explain the term-available chlorine.
 - o) Write the range for light fastness.
 - p) What is the proportion of wax and fatty acids in cotton?
 - q) Write the chemical formula of bleaching powder.
 - r) Define C.O.D.
- ii) Briefly write a test procedure to find efficiency of mercerization.
 - iii) How will you identify cellulose acetate fibre?
 - iv) Describe a test for alkali damage in wool.
 - v) Give a brief account of exposure rack.
 - vi) Write a procedure to identify P/V blend.
 - vii) What is grey scale? Explain the method of its use.
 - viii) Briefly write the procedure for Methylene Blue absorption test.
 - ix) Write a method to determine fat and wax content.
 - x) What is crocking? Name the dyes for which it is important.
 - xi) Describe a method for testing fastness to hot press.
 - xii) Write a simple procedure to check viscosity of printing paste.
 - xiii) Explain the term BOD.
 - xiv) Discuss some of the international standards for colour fastness.

SECTION-B

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

- Q.2 i) How will you differentiate polyester from nylon by chemical test?

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