

xiii) Enlist the various methods for uniformly dyeing of acrylics with basic dyes.

xiv) Explain the CIE lab system.

xv) What do you mean by colour difference, quantitatively?

SECTION-C

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

Q.3 Explain the application of basic dyes on acrylics with recipe, conditions and machine details.

Q.4 Explain the process of dyeing in Jet dyeing machine with neat flow diagram.

Q.5 Discuss some common dyeing defects in fabric with their causes and remedies.

Q.6 Discuss in detail the continuous process of Polyester/Cotton blend dyeing.

Q.7 Discuss the various applications of the CCM system in textile processing.

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No. of Printed Pages : 4

Roll No.

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5th Sem. / Textile Chemistry

Subject : Dyeing & Colour Matching

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1
- What are modified basic dyes?
 - Write the general formula for basic dyes.
 - What do you mean by binary and tertiary blend?
 - What blend is popular most in textiles?
 - Soft flow dyeing machine is used for _____ material.
 - Cotton/Polyester blend is dyed with _____ dyes combination.
 - What are HE reactive dyes?
 - Wool and acrylic blending is done at _____ stage.

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- i) Polyester, cotton & viscose blending are done at which stage?
- j) Write down the example of natural dyes from vegetable origin.
- k) What is most popular percentage of polyester-cotton blend?
- l) What is the function of padding mangle?
- m) Disperse-acid dye is used for which blend?
- n) Polyester dissolve in _____ solvent.
- o) What do you mean by K/S value?
- p) What is the purpose of spectrophotometer?
- q) Which material is dyed in Jet dyeing machines?
- r) How you differentiate between P/C and P/V blend?
- ii) Singeing of P/C blended fabric is done at what stage?
- iii) What is Metamerism and how many types of metamerisms are there?
- iv) What are the different ways of blend quantification?
- v) Natural dyes are not always eco-friendly, justify.
- vi) What is Centre to selvedge variation? Discuss reason and remedy?
- vii) Discuss the disadvantages of natural dyes.
- viii) How the basic dyes are modified?
- ix) What is Barre dyeing? How it can be controlled?
- x) Discuss the suitability of Disperse/Reactive combination on different types of blends.
- xi) Discuss some of the advantages of the blending.
- xii) Discuss the concept of one step process of P/C blend dyeing.

SECTION-B

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

Q.2 i) Why the modification of basic dyes is done?

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