

- Q.24 Explain dyeing of cotton with Solublised vat dyes with their properties. What type of defects occurred in this dyeing process.
- Q.25 Explain the properties of metal complex dyes with their method of application to wool and silk.

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3rd Sem.

**Branch : Textile Processing**

### Sub.: Dyeing of Natural Fibres

Time : 3 Hrs.

M.M. : 60

## SECTION-A

**Note: Multiple choice Questions. All Questions are compulsory. (6x1=6)**

- Q.1 The application of colour to whole body of Textile material with some degree of fastness.
- a) Dyeing                                  b) Printing
- c) Resist Style                         d) None
- Q.2 To increase the washing fastness of cotton dyed with direct dyes it is after treated with
- a) Copper salts                        b) Basic dyes
- c) Formaldehyde                      d) Sodium hydroxide
- Q.3 The function of common salt in the dye bath of direct dyes on cotton is
- a) As an exhausting agent
- b) As a retarding agent
- c) As a solvent
- d) As a softening agent

- Q.4 Acid dyes are mainly applied on
- a) Cotton                      b) Linen  
c) Wool                        d) Linen
- Q.5 The following dye will be suitable for sublimation transfer printing of polyester
- a) Reactive dyes              b) Vat dyes  
c) Acid dyes                  d) Disperse dyes
- Q.6 For the application of basic dyes on cotton this process is essential
- a) Mordanting                b) Acetylating  
c) Coupling                  d) Vatting

#### SECTION-B

**Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)**

- Q.7 What do you understand by Tendering.
- Q.8 Write the name of substantive dye.
- Q.9 Write full form of MLR.
- Q.10 What is the difference between hot brand and cold brand reactive dyes?
- Q.11 What is function of reducing agents in dyeing process.
- Q.12 What is Dye fastness.

#### SECTION-C

**Note: Short answer type Questions. Attempt any eight questions out of ten Questions. (8x4=32)**

- Q.13 How Cotton is dyed with direct dye?
- Q.14 What is fastness property if dyed material? Name various fastness properties.
- Q.15 What is the principle for wool dyeing?
- Q.16 What is the importance of basic dye?
- Q.17 Which pH is suitable for acid dyeing?
- Q.18 What is the function of acid dye?
- Q.19 What are the methods of preparation of dyes?
- Q.20 Explain dyeing of wool with Metal Complex dyes
- Q.21 What is the principle of azoic dye with its application.
- Q.22 Write a note on oxidation and pthalocynine colour.

#### SECTION-D

**Note: Long answer questions. Attempt any two questions out of three Questions. (2x8=16)**

- Q.23 Discuss after treatments of direct dyes. Explain concept of Exhaust dye and continuous process of dyeing.