

- Q.24 Explain dyeing of cotton with Solubilised 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.

No. of Printed Pages : 4  
Roll No. ....

222632

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.  $(6 \times 1 = 6)$

- 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.  $(8 \times 4 = 32)$

- 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 phthalocynine colour.

### **SECTION-D**

**Note:** Long answer questions. Attempt any two questions out of three Questions.  $(2 \times 8 = 16)$

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