

- Q.29 Explain various pretreatments for polyester.
- Q.30 Explain the bleaching of cotton with sodium hypochlorite.
- Q.31 What are the objectives of Mercerization?
- Q.32 What is the role of water and temperature in dyeing process.
- Q.33 Explain the dyeing of cotton with hot brand reactive dyes in details.
- Q.34 Explain the dyeing of polyester with carrier dyeing method.
- Q.35 Explain the working of Jigger Dyeing machine with neat line diagramme.

#### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain the classification of dyes on the bases of their application.
- Q.37 Explain the Scouring process in detail with all its steps.
- Q.38 How cotton is dyed with direct dye? Explain the complete process with procedure and chemical conditions.

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### 3rd Sem / Textile Technology Subject:- Textile Chemistry - I

Time : 3Hrs.

M.M. : 100

#### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Two types of reactive dyes are \_\_\_\_\_ and \_\_\_\_\_
- a) hot and cold                      b) acid and basic
- c) soluble and insoluble d) natural and synthetic
- Q.2 Which dye is used for polyester dyeing?
- a) acid                                      b) basic
- c) reactive                                d) disperse
- Q.3 \_\_\_\_\_ dye is used to dye the wool fabric.
- a) Sulphure                                b) Basic
- c) Disperse                                d) Reactive
- Q.4 \_\_\_\_\_ invented the process of mercerization.
- a) John Mercer                            b) Rudford
- c) Macmillen                                d) Henarry
- Q.5 Desizing removes only \_\_\_\_\_ material.

- a) oil and wax                      b) dust and dirt  
c) size                                  d) fibres
- Q.6 PH in scouring should be \_\_\_\_\_  
a) 7                                      b) 0  
c) 3                                      d) 10
- Q.7 What is the pH range for acids?  
a) 0-7                                  b) 7 - 10  
c) 10-14                              d) 0 - 14
- Q.8 \_\_\_\_\_ is exhausting agent used in direct dye.  
a) NaCl                                b) NaOH  
c) HCL                                d) H<sub>2</sub>SO<sub>4</sub>
- Q.9 Acrylic are dyed with \_\_\_\_\_ dyes.  
a) sulphure                          b) basic  
c) disperse                          d) reactive
- Q.10 Cheapest dye used for cotton fabric is \_\_\_\_\_  
a) direct                                b) basic  
c) disperse                          d) reactive

### SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Singeing is \_\_\_\_\_  
Q.12 Shearing is \_\_\_\_\_

- Q.13 Desizing is necessary because \_\_\_\_\_?  
Q.14 What are Auxochrome?  
Q.15 Which type of singeing is better?  
Q.16 Define Degumming.  
Q.17 Define Scouring.  
Q.18 Which impurities are removed in scouring?  
Q.19 Why soaping is done?  
Q.20 How natural oxidation can be done?

### SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 What is mercerization? How it is done?  
Q.22 Why bleaching is done? Name any two bleaching agents.  
Q.23 Which types of impurities are present in cotton?  
Q.24 Explain Enzymatic Desizing in detail.  
Q.25 Name the various singeing methods. Explain Gas Singeing.  
Q.26 Draw the process flow chart for pre-treatment of cotton from grey fabric to finished fabric.  
Q.27 List down the various types of dyes on the basis of solubility.  
Q.28 How degumming of silk is done? Explain.