

- Q.31 Discuss dyeing of cotton with direct dyes.  
 Q.32 Discuss dyeing of cotton with reactive dyes.  
 Q.33 Write short note on carbonization of wool.  
 Q.34 Discuss dyeing of wool with acid dyes.  
 Q.35 Discuss about natural and added impurities of wool.

### **SECTION-D**

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Discuss objectives of mercerization, physical and chemical changes during process.  
 Q.37 Discuss about High temperature method of dyeing polyester with diagram of machine.  
 Q.38 Explain the working of winch machine with a neat diagram?

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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 Bleaching of cotton is done by \_\_\_\_\_  
 a) Hydrogen Peroxide b) Sodium Hypochlorite  
 c) both d) none
- Q.2 Short fibres are removed by burning in \_\_\_\_\_ process.  
 a) singeing b) shearing  
 c) both d) None of them
- Q.3 Degumming of silk is the process of removal of \_\_\_\_\_ from silk.  
 a) natural gum b) oil and wax  
 c) both d) None of them
- Q.4 Dyeing of cotton can be done with \_\_\_\_\_ dyes.  
 a) direct b) reactive  
 c) vat d) All of them
- Q.5 Dyeing of wool can be done with \_\_\_\_\_ dyes.  
 a) acid b) basic

(40)

(4)

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- c) metal complex      d) All of them
- Q.6 Desizing is the process of removal of \_\_\_\_\_.  
a) size                  b) colour  
c) oil                    d) None of them
- Q.7 Dyeing of polyester can be done with \_\_\_\_\_ dyes.  
a) disperse              b) direct  
c) both                   d) none of them
- Q.8 Soap soda ash and \_\_\_\_\_ issued in scouring process?  
a) acid                   b) caustic soda  
c) both                    d) None of them
- Q.9 \_\_\_\_\_ and \_\_\_\_\_ conditions are required in dyeing of vat dyes?  
a) alkaline-reducing    b) acidic-oxidising  
c) neutral                d) None of them
- Q.10 acrylic is dyed with \_\_\_\_\_ dyes?  
a) basic dyes            b) reactive dyes  
c) both                    d) None of them

### SECTION-B

**Note:** Objective type questions. All questions are compulsory.  $(10 \times 1 = 10)$

- Q.11 Name any two natural impurities of cotton?
- Q.12 Name any two bleaching agents?
- Q.13 Write purpose of scouring process in cotton?

- Q.14 What is the function of singeing?
- Q.15 Define desizing?
- Q.16 Name any two natural fibres?
- Q.17 Name any two synthetic fibres?
- Q.18 Name any two machines used in dyeing of textiles?
- Q.19 Name any two methods of dyeing polyester?
- Q.20 What is the function of mercerization?

### SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions.  $(12 \times 5 = 60)$

- Q.21 Give introduction of textile processing.
- Q.22 Discuss about natural and added impurities of cotton.
- Q.23 Discuss about desizing of cotton.
- Q.24 Briefly explain about hypochlorite bleaching of cotton.
- Q.25 Differentiate between Dyeing and Printing.
- Q.26 Write short note on degumming of silk.
- Q.27 Discuss briefly about bleaching of silk with hydrogen peroxide?
- Q.28 Write short note on bleaching of polyamide and polyester?
- Q.29 Explain printing of cellulose acetate with disperse dyes?
- Q.30 Give classification of dyes?