

- Q.27 How will you determine Strength of bleaching powder.
- Q.28 Write the importance of colour fastness tests.
- Q.29 How rubbing fastness is determined?
- Q.30 Give a brief note on fastness to sea water.
- Q.31 Discuss briefly fastness to hot pressing.
- Q.32 Write a brief note on different effluent characteristics.
- Q.33 Write a method of testing damage to salt linkage in wool?
- Q.34 What is harness of water. Why soft water is necessary for wet processing?
- Q.35 Give a brief note on copper number test?

#### SECTION-D

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

- Q.36 Describe the method of determining blend percentage of Acrylic/Wool & Polyester/Cotton?
- Q.37 Give a detailed not on Barium Activity number test?
- Q.38 Explain the construction and working of laundrometer and How will you determine washing fastness of dyed fabric?

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**4th Sem.**

**Branch : Text. Proc. Text. Chem.**

**Sub.: Textile Chemical Testing**

Time : 3 Hrs.

M.M. : 100

#### SECTION-A

**Note: Multiple type Questions. All Questions are compulsory. (10x1=10)**

- Q.1 Viscose dissolves in \_\_\_\_?
- a) Water b) Air  
c)  $H_2SO_4$  d) NaCl
- Q.2 What cause hardness of water?
- a) Minerals b) Dye  
c) Thickener d) Soda
- Q.3 Oxycellulose has \_\_\_\_ strength than cellulose?
- a) Greater b) Lower  
c) High d) Very High
- Q.4 On burning cotton produce \_\_\_\_ like smell?
- a) Burning Paper b) Aromatic  
c) Pungent d) Bad
- Q.5 Axial ratio of mercerised cotton is?
- a) 12 b) 5  
c) 10 d) 1.5

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- Q.6 Barium activity number is related to?
- a) Mercerisation                      b) Dyeing
- c) Bleaching                              d) Desizing
- Q.7 Methylene blue is a \_\_\_\_\_ dye?
- a) Azoic                                      b) Direct
- c) Acidic                                      d) Basic
- Q.8 Which chemical is used in sea water fastness test?
- a) Ozone                                      b) NaCl
- c) Acid                                        d) Alkali
- Q.9 Mercerisation is carried out by using chemical?
- a) Dye                                        b) Pigment
- c) NaOH                                      d) Thickener
- Q.10 After degradation the strength of the material?
- a) Increase                                  b) Decrease
- c) Gain                                        d) Remains unchanged

#### SECTION-B

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

- Q.11 Write the full form of BIS?
- Q.12 Name the instrument used to check light fastness?

- Q.13 Cotton can be dissolved in \_\_\_\_\_?
- Q.14 Water hardness are of \_\_\_\_\_ types?
- Q.15 Name scales used to assess colour fastness?
- Q.16 Name the instruments used in hot pressing?
- Q.17 Blue wool standards are used in?
- Q.18 Name the instrument to test wet rubbing fastness?
- Q.19 List any two test for estimation of chemical degradation to cotton?
- Q.20 Nylon can be dissolved in?

#### SECTION-C

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

- Q.21 How to find available strength of  $H_2O_2$ ?
- Q.22 Write the procedure of light fastness testing on exposure rack?
- Q.23 Write the procedure of determining blend percentage of polyester cotton?
- Q.24 Explain method of determining Barium Activity Number.
- Q.25 Explain the forms of chemical degradation in cotton.
- Q.26 Write the method for determining Fat and Wax content in cotton.