

- Q.28 How fastness to perspiration is measured?  
 Q.29 What are blue standards? Where they are used?  
 Q.30 Discuss briefly fastness to sea water.  
 Q.31 How will you determine light fastness with exposure rack?  
 Q.32 Write the significance of cuprammonium fluidity test.  
 Q.33 Define Effluent. What are its characteristics?  
 Q.34 Write a note on analysis of fresh water.  
 Q.35 What are the main objectives of mercerization?

#### **SECTION-D**

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Describe the method of determining blend percentage of following blends  
 i) P/V  
 ii) Acrylic wool
- Q.37 How will you determine Rubbing fastness of dyed fabric. Explain with construction and working of instrument used.
- Q.38 Explain the process of mercerization ? Illustrate the procedure of Barium activity number test?

No. of Printed Pages : 4                    182645/122645/32653  
 Roll No. ....

#### **4th Sem / Textile Processing / Textile Chem.**

#### **Subject:- Textile Chemical Testing**

Time : 3Hrs.                            M.M. : 100

#### **SECTION-A**

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

- Q.1 Viscose Rayon is soluble in \_\_\_\_\_?  
 a) Acetone                            b) Acetic Acid  
 c) 60%  $H_2SO_4$                     d) None of these
- Q.2 After degradation the strength of the textile material?  
 a) Increases                        b) Decreases  
 c) Remains same                    d) None of these
- Q.3 Mercerization is carried out by using \_\_\_\_\_ chemical?  
 a) Soda Ash                        b) Caustic Soda  
 c) Acetic Acid                      d) Sulphuric acid
- Q.4 Barium activity number is used to determine efficiency of \_\_\_\_\_?  
 a) Desizing                        b) Scouring  
 c) Mercerization                    d) Bleaching

Q.5 Axial ratio of mercerized cotton is?

- a) 15
- b) 1.5
- c) 20.5
- d) 50.5

Q.6 Which instrument is used to test washing fastness of fabric?

- a) Crock Meter
- b) Exposure Rack
- c) Laundrometer
- d) Tachometer

Q.7 Burning of wool produce \_\_\_\_\_ like smell?

- a) Paper
- b) Plastic
- c) Hair
- d) None of these

Q.8 Waste water from textile industry is termed as

- a) Active
- b) Effluent
- c) Distilled
- d) None of these

Q.9 How many types of grayscales are there?

- a) 2
- b) 4
- c) 8
- d) 16

Q.10 Methylene blue is type of \_\_\_\_\_?

- a) Enzyme
- b) Dye
- c) Pigment
- d) Softener

### SECTION-B

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

Q.11 Cotton is soluble in 75% \_\_\_\_\_?

Q.12 Write the full form of TDS?

Q.13 Name the instrument to test wet rubbing fastness?

Q.14 Write full form of C.O.D.

Q.15 Which scales is used to assess fastness to rubbing?

Q.16 Exposure rack is used to check \_\_\_\_\_ Fastness.

Q.17 Name the instrument used to check perspiration fastness.

Q.18 Define Axial ratio.

Q.19 Name the types of hardness of water

Q.20 Name the instrument used to check light fastness.

### SECTION-C

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

Q.21 What are the various aims of Textiles Chemical Testing? Only name them.

Q.22 What is the role of laboratory in a chemical processing plant?

Q.23 What is chemical degradation of cotton? Describe briefly.

Q.24 Explain method of determining Deconvolution count.

Q.25 How will you determine Strength of hydrogen peroxide?

Q.26 What are the types of grey scales? Give its rating.

Q.27 How will you determine fat and wax content in a Textile material.