

**4th Sem./ Textile Processing**

**Subject : Textile Chemical Testing**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Mercerization is done by using\_\_\_\_\_?

- a) Soda Ash                      b) Caustic Soda
- c) Acetic Acid                  d) Ozone

Q.2 Viscose Rayon is soluble in\_\_\_\_\_?

- a) Acetone                      b) Acetic Acid
- c) 60% H<sub>2</sub>SO<sub>4</sub>                  d) None of these

Q.3 Which instrument is used to test washing fastness?

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

Q.4 Axial ratio of mercerized cotton is?

- a) 1.0                              b) 1.5
- c) 2.5                              d) 5.5

- Q.5 Barium activity number is related to ?
- a) Mercerization      b) Degumming  
c) Washing              d) Dyeing
- Q.6 Instrument used to test rubbing fastness \_\_\_\_\_?
- a) Exposure Rack      b) Crock meter  
c) Laudrometer        d) Tachometer

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Cotton is soluble in \_\_\_\_\_?
- Q.8 Define mercerization.
- Q.9 Name a test for estimation of chemical degradation to cotton.
- Q.10 Define deconvolution count.
- Q.11 Exposure rack is used to check \_\_\_\_\_ Fastness.
- Q.12 Name types of rubbing fastness.

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Write the method of determining blend percentage of polyester cotton.

- Q.14 Why colour fastness tests are important.
- Q.15 How scouring efficiency of textile material is measured?
- Q.16 How fast & wax content in textile material is determined?
- Q.17 What are types of grey scales? Give its rating.
- Q.18 Explain procedure to test wet rubbing fastness.
- Q.19 Write a note on degradation of cotton.
- Q.20 Write the procedure of light fastness testing on exposure rack.
- Q.21 How estimation of bleaching powder is done?
- Q.22 Write a note on fastness to sea water.

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Write a detailed note on aim and scope of Textile chemical testing
- Q.24 Write a method for assessment of degree of mercerization
- Q.25 Explain the construction and working and method to determine washing fastness with laundrometer.