

- Q.32 How to find available strength of H<sub>2</sub>O<sub>2</sub>?
- Q.33 Explain in brief about five parameters of waste water.
- Q.34 Write a note on cuprammonium fluidity test.
- Q.35 What is hardness of water? Explain its types.

### **SECTION-D**

- Note:** Long Answer type question. Attempt any two questions. Out of three questions. (2x10=20)
- Q.36 Explain washing fastness test. Write the detailed procedure to test washing fastness using laundrometer.
- Q.37 Explain and write the procedure and method to test barium activity number?
- Q.38 Illustrate in detail about the instrument and procedure to test light fastness on light fastness tester?

b)

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Roll No.....

### **4th Sem, Branch : Textile Processing Subject : Textile Chemical Testing**

Time : 3 Hrs.

M.M. : 100

### **SECTION-A**

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

- Q.1 Cotton is soluble in ?  
 a) Acetone                    b) Acetic Acid  
 c) 75% H<sub>2</sub>SO<sub>4</sub>            d) None of these
- Q.2 Textile fiber can be identified by ?  
 a) Burning Test              b) Microscopic Test  
 c) Solubility Test            d) All of these
- Q.3 Caustic Soda (NaOH) is used in.  
 a) Scouring                    b) Desizing  
 c) Mercerizing                d) Singeing
- Q.4 Viscometer instrument is used in \_\_\_\_\_ test?  
 a) Cuprammonium fluidity  
 b) Copper number  
 c) Barium activity number  
 d) Solubility test
- Q.5 Wood produce \_\_\_\_\_ like smell on burning?  
 a) Paper                      b) Plastic  
 c) Hair                        d) None of these

- Q.6 Which instrument is used to test light fastness?  
a) Crock Meter      b) Exposure Rack  
c) Laundrometer      d) Tachometer
- Q.7 Axial ratio of mercerized cotton is?  
a) 15      b) 1.5  
c) 20.5      d) 50.5
- Q.8 Copper number test is related so?  
a) Mercerization      b) Degumming  
c) Bleaching      d) Dyeing
- Q.9 Methylene blue is a \_\_\_\_\_?  
a) Enzyme      b) Dye  
c) Pigment      d) Softener
- Q.10 How many types of grey scales are there?  
a) 2      b) 4  
c) 8      d) 16

### SECTION-B

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

- Q.11 In which chemical Viscose rayon is soluble?
- Q.12 What is full form of TDS?
- Q.13 Name the instrument used to checking perspiration fastness.
- Q.14 Define Deconvolution count.
- Q.15 Define Axial ratio.

- Q.16 Name the instrument used to test sublimation fastness?
- Q.17 Exposure rack is used to check which fastness?
- Q.18 Name the instrument to test web rubbing fastness?
- Q.19 Name a test for estimation of chemical degradation to wool?
- Q.20 Name the types of hardness of water.

### SECTION-C

- Note :** Short answer type questions. Attempt any twelve questions out of fifteen questions.  $(12 \times 5 = 60)$
- Q.21 Write the importance of Textile Chemical Testing.
- Q.22 Write the procedure of determining blend percentage of polyester wool.
- Q.23 Why soft water is necessary for wet processing?
- Q.24 Give a brief note on copper number test.
- Q.25 Why colour fastness tests are important?
- Q.26 Explain procedure to test wet rubbing fastness.
- Q.27 What are grey scales and where they are used?
- Q.28 Write the procedure of light fastness testing on exposure rack.
- Q.29 Explain briefly method to quantitatively estimate bleaching powder.
- Q.30 Write method to determine fat & wax content in textile material.
- Q.31 Write the method for estimation of Deconvolution count.