

## **SECTION-D**

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

- Q.23 How many types of desizing is done? Explain enzymatic desizing
- Q.24 How cotton is dyed with reactive dye? Explain the complete process with procedure and chemical conditions.
- Q.25 What is the mercerization? What are the objectives of it? How mercerization is done on cotton?

No. of Printed Pages : 4  
Roll No. ....

222724

**2nd Sem / Text. Tech.**

**Subject : Dyeing and Pre-Treatments**

Time : 3 Hrs.

M.M. : 60

## **SECTION-A**

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

- Q.1 Dyeing is the \_\_\_\_\_ offabric.  
a) colouration      b) designing  
c) desizing      d) printing
- Q.2 Which chemical is used as acid desizing?  
a) sodium chloride      b) sodium alginate  
c) sulphuric acid      d) sodium hydroxide
- Q.3 Cheapest dye used for cotton fabric is \_\_\_\_\_  
a) Direct      b) Vat  
c) Reactive      d) Sulphure
- Q.4 Added impurities in cotton is \_\_\_\_\_  
a) size material      b) metal particles  
c) coloured threads      d) dust and durt

Q.5 Which is best desizing?

- a) Acid
- b) Alkali
- c) Enzymatic
- d) Rot steep

Q.6 Chemical formula for an exhausting agent used in direct dye is \_\_\_\_\_

- a) NaCl
- b) NaOH
- c) HCl
- d)  $\text{H}_2\text{SO}_4$

## SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory.  $(6 \times 1 = 6)$

Q.7 Reactive dye is used for \_\_\_\_\_ (Cotton/wool)

Q.8 Name two impurities of cotton fibre.

Q.9 Scouring is the removal of \_\_\_\_\_ (size/grease)

Q.10 \_\_\_\_\_ singeing is best method of singeing (Roller /Gas)

Q.11 Objectives of mercerization are to improve \_\_\_\_\_ (luster and strength / weight and whiteness)

Q.12 Vat dye is water \_\_\_\_\_ (Soluble / Insoluble)

## SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions.  $(8 \times 4 = 32)$

Q.13 Which singeing process is best? Give the reasons.

Q.14 Which machine is used to dye the polyester material? Explain briefly.

Q.15 What is the importance of bleaching? Explain bleaching with bleaching powder.

Q.16 Explain the process of dyeing of cotton with reactive dye

Q.17 Write a short note on 'Impurities in Cotton.'

Q.18 What is the role of temperature in dyeing process?

Q.19 Define Bleaching. What are the objectives of bleaching?

Q.20 Draw the line diagram of three bowl padding mangle machine and explain its working

Q.21 How cotton is dyed with direct dye?

Q.22 Write down the process of carbonizing of wool fabric.