

## **SECTION-D**

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

Q.23 Explain the classification of dyes on the bases of their application.

Q.24 How cotton is dyed with direct dye? Explain the complete process with procedure and chemical conditions.

Q.25 Explain the dyeing of polyester with disperse dye using HTHP dyeing machine.

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**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 \_\_\_\_\_ of fabric.

- a) whole coloration
- b) partial coloration
- c) localized dyeing
- d) printing

Q.2 Chemical name of NaOH is Sodium?

- a) hypochloride
- b) alginate
- c) hydroxide
- d) chloride

Q.3 For acid desizing, \_\_\_\_\_ acid is used in diluted form.

- a) H<sub>2</sub>SO<sub>4</sub>
- b) acetic acid
- c) formic acid
- d) lactic acid

Q.4 RFD stands for \_\_\_\_\_

- a) red fibre dyeing    b) ready for dyeing
- c) real fibre dyeing    d) raw fibre dyeing

Q.5 \_\_\_\_\_ is a type of singeing.

- a) Press singeing    b) modern singeing
- c) colour singeing    d) gas singeing

Q.6 Natural impurities in cotton is \_\_\_\_\_

- a) Size material    b) metal particles
- c) coloured threads    d) dust and durt

### SECTION-B

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

Q.7 Dye used for wool is \_\_\_\_\_ (basic / direct)

Q.8 Scouring is the removal of \_\_\_\_\_ (oil and wax / Size material)

Q.9 Bleaching is removal of \_\_\_\_\_ (natural colouring / wax )

Q.10 Reactive dye is used for \_\_\_\_\_ (Cotton / polyester)

Q.11 Name two water insoluble dyes.

Q.12 Singeing is the removal of \_\_\_\_\_ (hairy fibres / protein matter)

### SECTION-C

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

Q.13 Write down the types of singeing and explain the gas singeing.

Q.14 What are auxochrome and chromefore?

Q.15 What is the role of temperature in dyeing process?

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

Q.17 What is mercerization? How it is done?

Q.18 Why bleaching is done? Name any two bleaching agents.

Q.19 Which types of impurities are present in cotton?

Q.20 Explain Enzymatic Desizing in detail.

Q.21 Draw the process flow chart for pre-treatment of cotton from grey fabric to finished fabric.

Q.22 How degumming of silk is done? Explain.