

- Q.31 Write down the short note on Bronzing and sulphur Black tendering.
- Q.32 What are the various types of Hardness. Write down the importance of Soft water in dye house?
- Q.33 Write short note on Bronziness.
- Q.34 Write down the properties of milling and super milling acid dyes.
- Q.35 Write down methods of application cold brand and Hot brand on cotton with recipes.

#### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Write a short note on :
- Application of Sulphur Dyes on Cotton?
  - Application of OBA.
- Q.37 Write down the chemical conditions and mechanism involved in dyeing of cotton material with soluble Vat dyes.
- Q.38 Explain Properties, method of application of chlorotriazine and Vinyl Sulphate Reactive Dyes.

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#### 4th Sem / Text. Design Subject:- Dyeing Technology - I

Time : 3Hrs.

M.M. : 100

#### SECTION-A

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

- Q.1 Which Dyes forms covalent bond with cotton.
- Reactive Dyes
  - Disperse Dyes
  - vat Dyes
  - Basic Dyes
- Q.2 \_\_\_\_\_ gives medium to poor overall fastness on dyeing Cellulosic Materials.
- Reactive Dyes
  - Disperse Dyes
  - Direct Dyes
  - None of these
- Q.3 Woollen materials are dyed with \_\_\_\_\_ Dyes?
- Acid Dyes
  - Azoic Dyes
  - Disperse
  - Basic Dyes
- Q.4 Write down the formula of soda ash?
- $\text{Na}_2\text{CO}_3$
  - NaOH
  - NaCl
  - None of these
- Q.5 \_\_\_\_\_ Water is used in cotton dyeing?
- Hard water
  - Soft water
  - Both A & B
  - None of these

- Q.6 What is the full form of OBA?
- One Bleaching Agent
  - optical Bleaching Agent
  - Optical Brightening Agent
  - None of these
- Q.7 Give examples of Ingrain dyes?
- Acid Dyes
  - Azoic Dyes
  - Remazol Dye
  - Basic Dyes
- Q.8 Give one example of natural Dye?
- Reactive Dye
  - Henna
  - Remazol Dye
  - None of these
- Q.9 Cationic Dyes are also known as \_\_\_\_\_
- Acid Dyes
  - Azoic Dyes
  - Remazol Dye
  - Basis Dyes
- Q.10 \_\_\_\_\_ dye doesn't have affinity for cotton?
- Reactive Dye
  - henna
  - Remazol Dye
  - Basic

### SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Which dyes are known by the name Remazol dyes?
- Q.12 What is alkaline range on pH scale.
- Q.13 What is Hydrolysis reaction in reactive dye?
- Q.14 Why reactive dyes are called so?

- Q.15 Define fastness?
- Q.16 Define Dye?
- Q.17 What is pigment.
- Q.18 Why Vat dyes are called so?
- Q.19 What are natural dyes?
- Q.20 What are synthetic Dyes?

### SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Write a short note on Brief History of dyestuff.
- Q.22 Classify Coloring matters with the help of a chart.
- Q.23 Mentions few treatments to increase the fastness of Direct Dyed Materials?
- Q.24 Write short note on development of reactive dyes.
- Q.25 Write down the properties and classification of Acid Dyes.
- Q.26 Explain the diazotization and coupling process.
- Q.27 Classify various types of vat dyes.
- Q.28 How hydrolysis of reactive dyes is not good in a dye house?
- Q.29 Write short note on Coupling
- Q.30 Write the mechanism of dyeing cotton with direct dyes.