

- 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?
- Na_2CO_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?

- a) One Bleaching Agent
- b) optical Bleaching Agent
- c) Optical Brightening Agent
- d) None of these

Q.7 Give examples of Ingrain dyes?

- a) Acid Dyes b) Azoic Dyes
- c) Remazol Dye d) Basic Dyes

Q.8 Give one example of natural Dye?

- a) Reactive Dye b) Henna
- c) Remazol Dye d) None of these

Q.9 Cationic Dyes are also known as _____

- a) Acid Dyes b) Azoic Dyes
- c) Remazol Dye d) Basis Dyes

Q.10 _____ dye doesn't have affinity for cotton?

- a) Reactive Dye b) henna
- c) Remazol Dye d) Basic

SECTION-B

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

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. $(12 \times 5 = 60)$

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.