

- Q.30 What are the essential qualities of a carrier used in carrier dyeing its disadvantages.
- Q.31 Write the recipe for dyeing silk with acid dyes.
- Q.32 Discuss the procedure of dyeing of acrylics with basic dyes.
- Q.33 Mention few properties of acid dyes.
- Q.34 What is the significance of compatibility value in Basic dyes.
- Q.35 Write down a short note on alcian blue dyes.

SECTION-D

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

- Q.36 Write a short note on :
- Application of Pigments
 - Aniline Black dyeing
- Q.37 Write down the chemical conditions and mechanism involved in dyeing of Wool and silk with acid dyes?
- Q.38 Explain the mosol method of dyeing polyester along with the merits of this method.

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4th Sem.

**Branch : Text. Proc. Text. Chem.
Sub.: Technology of Dyeing-II**

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (10x1=10)

- Q.1 _____ dyes are mostly used in processing industry
- Natural
 - Synthetic
 - Pigment
 - Ingrain
- Q.2 _____ requires acidic medium for their application?
- Direct
 - Acid dye
 - Basic Dyes
 - Vat
- Q.3 _____ dyes have no affinity for cotton materials?
- Direct
 - Acid dye
 - Basic Dyes
 - Vat
- Q.4 Cellulose relates to _____
- Wool
 - Polyester
 - Cotton
 - None of these
- Q.5 Chromium metal is incorporated in _____ dyes?
- Direct
 - Reactive Dyes
 - Metal complex Dyes
 - All of the above

- Q.6 The coloration of a textile substrate is called as _____
 a) Dyeing b) Bleaching
 c) Desizing d) Finishing
- Q.7 _____ method of polyester dyeing has not been used in textile industries these dyas?
 a) HTHP b) Thermosol
 c) Carrier d) None of these
- Q.8 _____ agent is used to keep the dye in dispersed form while dyeing polyester?
 a) Wetting b) Dispersing
 c) Exhausting d) None of these
- Q.9 Acrylic is dyes with _____ dye?
 a) Disperse b) Basic
 c) Direct d) None of these
- Q.10 Dye is having _____ in its structure?
 a) Auxochrome b) Chromophore
 c) Both A & B d) None of these

SECTION-B

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

- Q.11 pH range in dyeing polyester is alkaline. (True/False)
- Q.12 What is saturation limit in basic dyes?
- Q.13 What is the function of retarding agent?
- Q.14 Define is pH?

- Q.15 Define oxidation colours.
- Q.16 What is single bath dyeing process for P/C blend fabric?
- Q.17 Give an example of banned dye.
- Q.18 What is the pH on 1:1 metal complex dyes.
- Q.19 Carrier dyeing is carried out at _____ temp & HTHP dyeing carried out at _____ temp.
- Q.20 Basic dyes have _____ (affinity / no affinity) for cotton materials.

SECTION-C

- Note: Short answer type Questions. Attempt any twelve questions out of fifteen Questions. (12x5=60)**
- Q.21 Write down 5 properties Metal complex dyes.
- Q.22 Write a note on saturation limit and saturation factor.
- Q.23 Write a note on chrome dyes.
- Q.24 Write down the principle and mechanism of dyeing cotton with mineral dyes.
- Q.25 Write down the 5 essential properties of a carrier to be used in polyester dyeing.
- Q.26 Write down 5 properties of Basic dyes.
- Q.27 Give method of application of mordant dyes.
- Q.28 Give method of application of 1:1 metal complex dyes.
- Q.29 Write down the properties of mechanism of dyeing with basic dyes?