

- Q.29 Explain the principle & methodology involved in application of 1:1 & 1:2 metal complex dyes.
- Q.30 Write down the Thermosol process of dyeing Polyester.
- Q.31 Write a note on Banned dyes and Chemicals.
- Q.32 Write down the method of determining Washing Fastness of a dyed sample.
- Q.33 Explain the working of Jigger Dyeing machine.
- Q.34 Write a note on Eco Friendly Dyes and Chemicals.
- Q.35 Describe the construction & working of loose stock dyeing machine.

Section-D

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

- Q.36 Explain the principle & working of Beam dyeing machine with a neat diagram?
- Q.37 Explain the working and operation of Winch dyeing machine.
- Q.38 Explain different dyeing methods of polyester also explain advantages and disadvantages of the methods?

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**5th Sem. / Text. Desgn
Subject : Dyeing Technology-II**

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Metal complex dyes are water _____.
 a) Insoluble b) Soluble
 c) Both A & B d) None of these
- Q.2 Polyester materials is mostly dyed with _____ ?
 a) Reactive b) Disperse Dyes
 c) Basic Dyes d) None of these
- Q.3 _____ is a water Insoluble dye?
 a) Acid Dyes b) Azoic Dyes
 c) Remazol Dye d) Direct Dye
- Q.4 _____ metal is used in the chemical structure of Metal complex dye?
 a) Zinc b) Sodium
 c) Cobalt d) None of these
- Q.5 Water which does not form foam in soap is called _____ ?
 a) Hard water b) Soft water
 c) Both A & B d) None of these

Q.6 _____ is used to measure perspiration fastness of material?

- a) Perspirometer
- b) Laundrometer
- c) Crockmeter
- d) None of these

Q.7 _____ are Ice colours?

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

Q.8 Give one example of natural Day?

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

Q.9 Give example of an exhausting agent?

- a) H_2O_2
- b) NaOH
- c) NaCl
- d) None of these

Q.10 Write down Chemical formula of Sodium hydroxide?

- a) H_2O_2
- b) NaOH
- c) NaCl
- d) None of these

Section-B

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

Q.11 _____ pH is maintained during dyeing with Basic Dyes?

Q.12 What is affinity of a dye?

Q.13 _____ temperature is maintained during High temperature method of polyester?

Q.14 Define pH?

Q.15 Write two properties of 1:2 metal complex Dyes?

Q.16 Premetallised dyes are also called as _____.

Q.17 Colour bearing compound in a dyes is called _____?

Q.18 Nowadays Carrier Dyeing method is _____ used for polyester Dyeing in Textile industry? (Widely used/Not used)

Q.19 Dispersing Agent is used during dyeing of _____ Material.

Q.20 Combination of _____ dye is used to dye P/Cblend?

Section-C

Note: Short answer type Question. Attempt any twelve questions out of fifteen Questions. $(12 \times 5 = 60)$

Q.21 Discuss in detail the various methods of dyeing of acrylics with Basic dyes.

Q.22 Write a note on Chrome dyes.

Q.23 Write down the importance of soft water in dye house.

Q.24 Briefly discuss the History of Dye stuff and Classify coloring matters with the help of a chart.

Q.25 What are the essential qualities of a carrier used in carrier dyeing its disadvantages.

Q.26 Write note on Defects and remedies of Dyeing Blends?

Q.27 Write down the properties and dyeing procedure with Disperse/Ractive dyes?

Q.28 Write down in detail the working of continuous dyeing machine.