

- Q.26 What are different factors that affect direct dyeing?
Explain effect of temp.
- Q.27 What is role of alkali in reactive dye?
- Q.28 Differentiate between readymade and ingrain dyes.
(Any 3).
- Q.29 Write about of cold brand reactive dye.
- Q.30 Classify dyes.
- Q.31 Why soda ash is required for pasting of direct dye?
- Q.32 What is the principle of dyeing of Vat dye?
- Q.33 How can fastness properties be increased in direct dyes?
- Q.34 Write recipe for dyeing of cotton with direct dye.
- Q.35 What is bronzing of shades in sulphur dye.

SECTION-D

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

- Q.36 Explain in brief the classification of dyes.
- Q.37 What soaping is not done in direct dye sample?
Explain in detail the method to improve fastness properties of direct dyes fabric.
- Q.38 Explain in detail the Reactive dye (Any one)

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**3rd Sem / Text. Proc., Text Chem
Subject:- Technology of Dyeing - I**

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 The small protruding fibres are removed by
a) Affinity b) bleaching
c) Singeng d) None of these
- Q.2 Dye is having
a) Chromophoric group
b) Auxochrome
c) Both A & B
d) None of these
- Q.3 Affinity of dye is increased by
a) water b) salt
c) Dye d) None of these
- Q.4 The aqueous medium is
a) Heat b) Water
c) Dye d) None of these

- Q.5 Wool has affinity for
 a) Acid dye b) Metal complex dyes
 c) Mordant dye d) All of these
- Q.6 Sodium Hydroxide is
 a) Acid b) Alkali
 c) dye d) None of these
- Q.7 Wet processing is done in
 a) Aqueous medium b) dry medium
 c) None of these
- Q.8 Ingrain dyes are
 a) Azoic colours b) Mineral colours
 c) Oxidation colour d) All of these
- Q.9 Direct dyes are having affinity for
 a) Wool b) Cotton
 c) Polyester d) None of these
- Q.10 Polyester is dyed with help of
 a) Levelling agents b) Carriers
 c) Exhausting agents d) None of these

SECTION-B

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

Q.11 Mostly _____ (synthetic / natural) dyes are used.

- Q.12 Reactive dyes require _____ (acidic / alkaline) medium for fixation.
- Q.13 Leuco form of Vat dye is _____ (soluble /insoluble) in water.
- Q.14 Umbrellas are dyed by _____ (oxidation color / mineral color).
- Q.15 Glaubers salt acts as _____ (retarder / exhausting agent) in direct dyes dyeing.
- Q.16 Dyeing of cotton with reactive dyes is _____ (ion exchange / covalent bond) method.
- Q.17 The dye obtained from indigofera plant is _____ (direct dye / indigo dye)
- Q.18 Henna is a natural dye (True/False)
- Q.19 Cotton has affinity for sulphur dyes. (True/False)
- Q.20 Leuco vat form is solubilised by alkali. (True/False)

SECTION-C

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

- Q.21 Write 4 properties of Indigo Sols.
- Q.22 Define Exhausting agents and uniform dyeing.
- Q.23 What is role of heat in dyeing?
- Q.24 Write 4 properties of sulphur dyes.
- Q.25 Write 4 properties of Azoic dyes.