

**5th Sem. /Textile Design
Subject : Dyeing Technology -II**

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple Choice Questions. All Questions are compulsory. (6x1=6)

- Q.1 Retarding agents acts as _____.
a) Levelling agents b) Carriers
c) Exhausting agent d) None of these
- Q.2 Wool can be dyed by _____.
a) Acid dyes b) Metal complex dye
c) Mordant dye d) All of these
- Q.3 Pigments has affinity for _____.
a) Vegetable fibre b) Animals fibre
c) Synthetic fibre d) None of these
- Q.4 Metal is incorporated in chemical structure of metal complex dyes
a) Hydrogen b) Chromium
c) Sodium d) None of these
- Q.5 Basic dye is used to dye _____ material.
a) Cotton b) Acrylic
c) Polyester d) None of these

- Q.6 Silk can be dyed by _____.
a) Acid dyes b) Metal complex dyes
c) Mordant dyes d) All of these

Section-B

Note: Objective/Completion type questions. All questions are compulsory. $(6 \times 1 = 6)$

- Q.7 Name the machines where we can dye fabric?
Q.8 Define PH?
Q.9 Carrier dye is carried out at _____ Temp and HTHP dyeing is carried at _____ temp.
Q.10 Mechanism of dyeing of acrylic with based dyes is _____ (ion exchange / covalent bonding)
Q.11 100% Acrylic fibre is difficult to dye. (True/False)
Q.12 12 Disperse dyes are applied in _____ (Acidic/ Netural) medium.

Section-C

Note: Short answer type Question. Attempt any eight questions out of Ten Questions. $(8 \times 4 = 32)$

- Q.13 Write down the four defect during dyeing of blends and their remedies.
Q.14 Describe the working of loose stock dyeing machine.
Q.15 Give method of application of 1:1 metal complex dyes.
Q.16 With relevant diagram explain the working of hank dyeing machine.

- Q.17 Write mechanism of dye wool with basic dye.
Q.18 Write recipe for dyeing of silk with acid dyes.
Q.19 Write any 5 properties of basic dyes.
Q.20 Write any 4 merits and demerits of carrier dyeing.
Q.21 Write 5 properties of disperse dyes.
Q.22 How will you produce level dyeing in acrylic fibre dyeing by basic dye.

Section-D

Note: Long answer questions. Attempt any two question out of three Questions. $(2 \times 8 = 16)$

- Q.23 What are different method for dyeing of polyester? List 3 advantage and disadvantage of carrier dyeing.
Q.24 Explain high temperature and thermosol dyeing method of polyester also explain advantage of both the method.
Q.25 Write short note on different type of fastness properties in details.