

**3rd Sem / Textile Processing**  
**Subject : Dyeing of Natural Fibres**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Direct dye is having affinity for
- a) Cotton                      b) Acetate
  - c) Silk                         d) Polyester
- Q.2 Acid dye is having affinity for
- a) Regenerated fibre    b) Mineral fibre
  - c) Animal fibre          d) Vegetable fibre
- Q.3 Ingrain dyes are
- a) Azoic colours          b) Mineral colours
  - c) Oxidation colour      d) All of these
- Q.4 Direct dyes are
- a) Anionic dyes          b) Cationic dyes
  - c) Non ionic dyes        d) None of these

- Q.5 NaCl is used as
- a) Levelling agents      b) Carriers
  - c) Exhausting agents    d) None of these

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

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Write chemical representation for Direct dye.
- Q.8 Oxidation colour is an example of\_\_\_\_\_.
- Q.9 Tendering of black dyed cotton fabric is a defect that occurs in\_\_\_\_\_ dyed fabric.
- Q.10 Write a dye that is having poor washing fastness property.
- Q.11 One example of water insoluble dye is\_\_\_\_\_.
- Q.12 Azoic dye is an example of\_\_\_\_\_.

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Differentiate between readymade and ingrain dyes. (Any3)

- Q.14 Write about of cold brand reactive dye.
- Q.15 Differentiate between dyes and pigments.
- Q.16 Write 4 properties of Vat colours.
- Q.17 Write 4 properties of sulphur colors.
- Q.18 Name the factors that affect direct dyeing? Explain role of temp.
- Q.19 What is the role of alkali in reactive dye?
- Q.20 Write 4 properties of direct dyes.
- Q.21 Mention 4 properties of direct dyes.
- Q.22 Write about Naphtholation.

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain in detail the Direct dye.
- Q.24 Why Reactive dyes are dyed in two steps? Explain hydrolysis with reaction.
- Q.25 Explain principle of application of Vat dye.