

**3rd Sem / Textile Processing**  
**Subject : Dyeing of Naturals 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.  $(6 \times 1 = 6)$

- 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.  $(8 \times 4 = 32)$

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

- Q.14 Write about 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.  $(2 \times 8 = 16)$

- 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.