

**Sem. 2nd/ Textile Processing**  
**Sub. : Dyestuff Chemistry**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

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

Q.1 \_\_\_\_\_ dye has nitro group?

- a) Disperse                      b) Turmeric
- c) Henna                         d) Tea

Q.2 \_\_\_\_\_ is the first direct dye?

- a) Congo purple                b) Congo yellow
- c) Congo red                    d) Congo blue

Q.3 \_\_\_\_\_ dye has anthraquinone group?

- a) Turmeric                      b) Henna
- c) Tea                              d) Vat

Q.4 CuSo<sub>4</sub> is used as \_\_\_\_\_ in natural dyeing?

- a) Solvent                        b) Mordent
- c) Alkali                         d) Acid

- Q.5 \_\_\_\_\_ is also called oxidation colour?  
a) Acid                                      b) Direct  
c) Reactive                                      d) Aniline Black
- Q.6 \_\_\_\_\_ dye is ideal for acrylic?  
a) Basic                                      b) Acid  
c) Direct                                      d) Reactive

### SECTION-B

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

- Q.7 Which dye is ideal for cotton dyeing?  
Q.8 \_\_\_\_\_ dye is ideal for wool dyeing?  
Q.9 Nylon can be dyed with \_\_\_\_\_ dye?  
Q.10 Direct dye forms \_\_\_\_\_ bond with cotton?  
Q.11 Name one natural dye obtained from animal?  
Q.12 Name one banned dye?

### SECTION-C

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

- Q.13 Discuss manufacturing process of benzoic acid?  
Q.14 Draw structure of Knoevenagel acid?

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- Q.15 Write a note on tannic acid?  
Q.16 Discuss about M-Acid?  
Q.17 Explain sulphonation process?  
Q.18 Write a note on halogenation?  
Q.19 Discuss about azo coupling process?  
Q.20 Write extraction procedure for any one natural dye?  
Q.21 Write a note on chemistry of reactive dyes?  
Q.22 Write a note on history of dyestuff?

### SECTION-D

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

- Q.23 Classify dyes on the basis of chemical constituent?  
Q.24 Explain various forces responsible for dyestuff application?  
Q.25 Explain coal tar distillation process in detail with the help of flow charts?

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