SECTION-C

Note:Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 How will you identify vat dyes on cotton.
- Q.4 Why synthetic dyes are called Coaltar dyes. What do we get on distillation of coaltar briefly explain.
- Q.5 How will you apply reactive dye on cotton rights its reaction with water and fabric.
- Q.6 What are factors that assist in dye stuff application.
- Q.7 How will you classify dyes according their chemical structure. Define CI Constitution Number and CI Generic names. Give chemical structures of few dyes.

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4th Sem. / TP/TC

Subject: Die stuff Chemistry

Time : 3 Hrs. M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) What are dyes?
 - b) Define Auxochrome?
 - c) What are natural dyes?
 - d) Name some coupling components?
 - e) What is Sulfonation?
 - f) Synthetic dyes are also called_____.
 - g) What are principles products of Coaltar distillation?
 - h) Which groups are responsible for providing colour to dye. Name any two.

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- i) How Pigments differ from dyes?
- j) Name any two dyes used for dyeing of cotton?
- k) Give examples of insoluble dyes?
- I) Reactive dyes chemically react with cellulose in presence of _____.
- m) Define Cold brand reactive dyes?
- n) What are Leuco vat dyes?
- o) Give examples of any two Mordants?
- p) Give examples of natural dyes?
- q) Which synthetic dyes was first synthesised? Name its group also.
- r) Congo Red belongs to which class of dye.

SECTION-B

Note:Short answer type questions. Attempt any ten parts 10x4=40

- Q.2 i) Briefly discuss properties of Reactive Dyes.
 - ii) What are desirable properties of dye stuff.
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- iii) How reactive dyes are applied on cotton?
- iv) Explain process of Nitration?
- v) What is role of Sodium by Carbonate in reactive dyeing?
- vi) Explain Diazotisation and coupling.
- vii) What are Intermediates? Write structure of any four.
- viii) What is role of sodium sulphide in sulphur dyeing.
- ix) Why after treatments are necessary in dyeing.
- x) Why alkali is required in reactive dyeing.
- xi) Discuss witt's theory of colour.
- xii) Briefly explain Tobias-Acid?
- xiii) How can we reduce wastage of reactive dyes.
- xiv) Na2 CO3 is required in reactive dyeing.
- xv) What are factors that affect adsorbtion of dyes stuff.

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