

SECTION-C

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

- Q.3 Explain properties & classification of reactive dyes.
- Q.4 Explain in detail vatting, Dyeing & oxidation steps while dyeing cotton with vat dyes.
- Q.5 Write down the properties & application procedure of solublised vat dyes to cotton.
- Q.6 Write down mechanism involved in dyeing cotton with direct dye.
- Q.7 Write a short note on
- Sulphur black tendering
 - History of dyeing.

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3rd Sem. / Text Proc./ Text Chem.

Subject : Tech. of dyeing-I

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1
- What are the functions of pH in dyeing?
 - Naphthols are water _____. (Soluble/insoluble)
 - Define ice colours?
 - Give an example of exhausting agent?
 - Write down the dyeing temperature of procion H dyes.
 - Define compatibility?
 - Give example of levelling agents.
 - Can acid dyes be applied on cotton?
 - Name the dyes that can be applied on jute ?
 - Which types of bonds are formed in

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reactive dyes?

- k) Cotton when dyed with _____ dyes give excellent fastness properties (Direct/ vat)
- l) Give examples of oxidising agents used in vat dyes.
- m) Write down any two water soluble dyes.
- n) Which oxidising agent is used in sulphur dyeing.
- o) What is percentage pick up.
- p) At what temperature direct dyes are exhausted on cotton.
- q) Define pH.
- r) Define affinity.

SECTION-B

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

- Q.2
- i) What is zeta potential?
 - ii) Write down some properties of reactive dyes.
 - iii) Write down the chemicals & conditions for dyeing cotton with direct dyes.

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- iv) Classify of dyes with the help of a chart.
- v) Explain classification of sulphur dyes on the basis of application.
- vi) What are pigments? How are they different from dyes?
- vii) Write the recipe of dyeing cotton with cold brand reactive dye?
- viii) Write down the function of levelling agent in vat dyes?
- ix) Compare sulphur dyes with solubilised vat dyes?
- x) Write a short note on development of reactive dye.
- xi) Write down the importance of oxidation step in vat & sulphur dyes.
- xii) Explain the process of dyeing with solubilised vat dyes.
- xiii) Write down the function of cationic dye fixing agent.
- xiv) List some properties of vat dyes.
- xv) Discuss the diazotization step.

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