## **SECTION-C**

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

- Q.3 Explain the importance of soft water in dyeing.
- Q.4 With neat diagram describe the working of hank dyeing machine.
- Q.5 Write short note on history of dyes and dyeing.
- Q.6 Explain natural and mineral dyes.
- Q.7 Describe the mercerization process in a chain mercerizes.

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3<sup>rd</sup> Sem. / Textile Design

Subject : Dyeing Technology - I

Time: 3 Hrs. M.M.: 100

## **SECTION-A**

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

- Q.1 a) What do you understand by PH?
  - b) What is dope dyeing?
  - c) What are the impurities in wool fibres
  - d) What is oxidative bleaching
  - e) What is scouring
  - f) What are natural dyes
  - g) How can you maintain constant PH of an aqueous solution.
  - h) Explain hank dyeing.
  - i) What is desizing.

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- j) What is package dyeing?
- k) In what different forms yarn can be dyed?
- I) What are desirable properties of dye?
- m) How is polypropylene fibre is dyed?
- n) What is fibre dyeing?
- o) Explain bleaching.
- p) Classify synthetic dyes with example
- q) What is the purpose of preparatory wet processing?
- r) What is singeing of textile materials?

## **SECTION-B**

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

- Q.2 i) Write recipe and condition of acid desizing.
  - ii) Explain importance of PH in dyeing.
  - iii) How will you carry out rot stripping.

- iv) Classify dyes with respect to most popular ways and give commercial name of dyes in each case.
- v) Derive the expression of PH for an acid.
- vi) How will you bleach polyester fabric.
- vii) How the caustic is recovered cytes mercerisation?
- viii) What is the principle of oxidative bleaching
- ix) Enlist various ways in which hardness of water can be expressed.
- x) Compare fibre dyeing and stock dyeing.
- xi) How will you determine the amount of excess H<sub>2</sub>O<sub>2</sub> in bleached material.
- xii) Write the basic mechanism of dyeing protein fibre with acid dyes.
- xiii) What is the stage of which PC blended fabric is singed and why?
- xiv) Write recipe and condition of enzymatic desizing.

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