

- ix) What is sanforizing and why is it carried out?
- x) In what respect enzyme washing is superior to stone and chemical washing ?
- xi) Briefly discuss 'stone wash'?
- xii) Discuss different printing techniques.
- xiii) Discuss antimicrobial finish of garments.
- xiv) What is meant by 'cosmeto garments
- xv) Make a list of check points for quality control of garments.

SECTION-C

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

- Q.3 Write about preparation of indigo dye from indigofera plant.
- Q.4 Explain the factors influencing indigo dye pick-up in a cotton yarn.
- Q.5 What is the role of quality control department in apparel industry? Explain it with the help of flow-diagram and examples.
- Q.6 What do you mean by care labeling? Explain in detail, international care labeling system.
- Q.7 Discuss various denim washing treatments.

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Roll No.

6th Sem. / Text. Proc.

Subject : Garment Processing - III

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 a) What is denim ?
- b) Why traditional denim fabric is bluer on the surface and almost white on the back.
- c) Mention the chromophore group that characterizes indigo dye.
- d) What is 'luco form' of indigo dye?
- e) What is the problem associated with prolonged immersion of yarn in dye-bath while dealing with indigo dye?
- f) What is skewing?
- g) Why does randomization of can become a necessary step at long chain beaming?

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- h) Why is dwell time, at the end of a traverse stroke, kept minimum in case of a ball warping machine?
- i) Why is two stage shrinkages carried out in the case of a denim fabric.
- j) Why does industry prefer rope form dyeing technique to sheet form dyeing technique while opting to manufacture a denim fabric?
- k) What are the features of mono-ionic form of indigo dye?
- l) How is after treatment carried out in case of indigo dyed yarns ?
- m) Why is "Acid wash" of denim carried out?
- n) What is "back staining" with reference to stone washing?
- o) What do you mean by "enzyme wash" in denim?
- p) Why the bottom of paddle dyeing machine is made oval?
- q) Why are delicate garments turned inside out during garment dying process
- r) What is the difference between black denim and crushed denim.

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SECTION-B

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

- Q.2
- i) What are the different ionic forms of indigo dye? Mention the characteristics of each form. In which form of indigo dye, greater colour yield is observed.
 - ii) What is the effect of adding sodium carbonate and sodium hydroxide in dye bath on indigo dyeing process?
 - iii) What are the advantages and disadvantages associated with different techniques of indigo dyeing.
 - iv) Describe the design and functioning of a ball warper machine.
 - v) Discuss the precaution any steps needed with reference to indigo dyeing technique.
 - vi) Discuss the scope and possible techniques to reduce that cost of indigo dyeing.
 - vii) Discuss different types of faults associated with a denim fabric.
 - viii) Why is naphthol regarded as a promising substitute for indigo dye ?

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