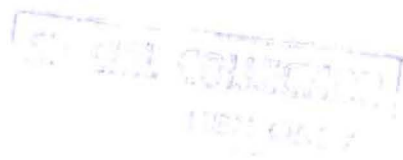
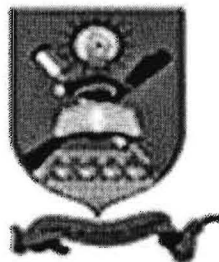


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FACULTY OF INDUSTRIAL TECHNOLOGY

DEPARTMENT OF TEXTILE TECHNOLOGY

**EXAMINATION OF THE EFFECTS OF PRETREATMENT ON
PRINT QUALITY OF COTTON FABRICS PRINTED WITH
REACTIVE DYES AND PIGMENTS**

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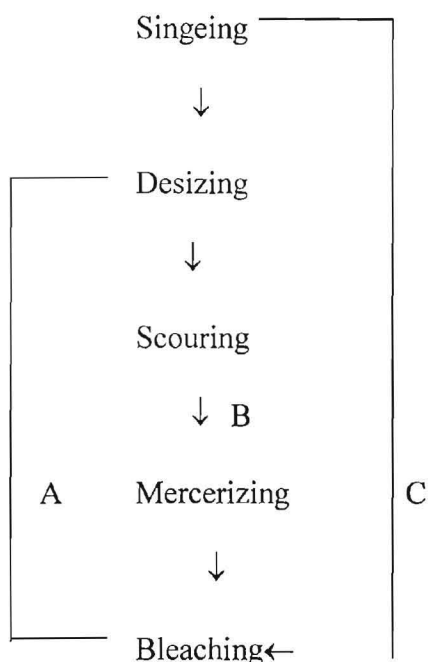
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Abstract

An optimal pre-treatment of fabrics to be printed calls for an observation of special quality features of the substrate as this results in many rejects in the final inspection to about 80% of the rejects being caused by poor pretreatment. The stages of pretreatment are shown below



To examine the effects of pretreatment on print quality, routes A, B and C were taken. The pretreatment process aims at having amongst others good absorbency and reducing the loss of potential dye-fibre interaction due to competing hydrolysis for example reaction of starch and reactive dye; this manifests itself in reduced dye fixation. This will also result in general and incomplete utilisation of colour which is to be avoided at all costs.