

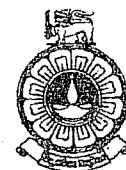
THE OPEN UNIVERSITY OF SRI LANKA

DIPLOMA IN TECHNOLOGY/ DIPLOMA IN INDUSTRIAL STUDIES

TTX 4234/TTD2234 - TEXTILE COLOURATION AND FINISHING

FINAL EXAMINATION- 2006/2007

DURATION- THREE HOURS



Date: 06th March 2007

Time: 0930-1230 Hrs

Total number of questions in this paper is 10. Total number of questions to be answered is 06. Question number one is compulsory and carries 25 marks. All other questions carry fifteen (15) marks

01. Compulsory question

(Each part carries 2.5 marks amounting to a total of 25 marks)

- (01) What is the function of levelling agents?
- (02). What is the function of mordants?
- (03). Briefly explain the term "Leuco compound"
- (04) Give two reasons as to why the reactive dyes are very popular.
- (05) What do you mean by liquor ratio?
- (06). What are the various stages involved in a general large scale printing process ?
- (07) Which style Batik printing belongs to ?
- (08). State two characteristics that a thickener should possess.
- (09). Name any four styles used in printing.

(10). For which purpose wool is treated with chlorine ?

02. Classify the different types of dyes according to their use and explain each type briefly.
03. Discuss the properties and the method(s) of application of reactive dyes.
04. Explain the dyeing of cellulose and protein with basic dyes.
05. Outline the different printing methods which are generally used in printing of textiles.
06. What are the main types of ingredients in a printing paste? Explain the function of each ingredient.
07. With the aid of clear diagrams explain how the printing is carried out in a rotary screen printing machine.
08. Briefly explain the processes that can be categorised under mechanical finishing.
09. Describe the methods used for drying of textile fabrics.
10. What are the four general methods used to reduce the felting shrinkage of wool?
Explain the methods by which wool is made dimensionally stable by application of chlorine.