



**2<sup>ND</sup> SEM. 2006/2007**

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**UNIVERSITY OF SWAZILAND**

**SUPPLEMENTARY EXAMINATION PAPER**

**PROGRAMME : DIPLOMA IN HOME ECONOMICS  
EDUCATION & HOME ECONOMICS  
YEAR II**

**COURSE CODE : TAD 202**

**TITLE OF PAPER : TEXTILE SCIENCE AND LAUNDRY**

**TIME ALLOWED : TWO (2) HOURS**

**INSTRUCTIONS : ANSWER QUESTION 1  
(COMPULSORY) AND  
ANY ADDITIONAL (2)  
QUESTIONS.**

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GRANTED BY THE CHIEF INVIGILATOR**

**QUESTION 1 [COMPULSORY]**

- a) For the following detergents, state the foaming ability, suitability for kind of clothes to wash, special ingredient in the detergent, whether it is acidic or basic and peculiar information on each of the following: Sunlight, Punch, Skip, and Surf.

**[5 x 4 = 20]**

- b) What type of wool is mostly found in South Africa and what are its characteristics.

**[5 marks]**

- c) Describe how the above fibre type is processed into fabrics.

**[10 marks]**

- d) State the climatic conditions ideal for producing the four different natural fibres.

**[4 marks]**

- e) What is the main constituent of this fibre?

**[1 mark]**

**[Total = 40 marks]**

**QUESTION 2**

- a) You are designing a summer sportswear garment for a Botswana club. You have been advised to use a synthetic fibre. Give a detailed procedure that you would use to test the suitability of fabric for the purpose, and state your expectations. Suggest the fibre content of two fabrics you are likely to test and justify your choices.

**[10 + 7 = 17]**

- b) Explain what the following means 35 tex Z 600.

**[3 marks]**

- c) How would you remove the following stains on cotton garments: ink, lipstick, curry, blood, chewing gum. State the general rules to follow

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in removing stains, and indicate the stain removing agent to use for each stain.

**[10 marks]**

**[Total = 30 marks]**

**QUESTION 3**

- a) A detergent acts as an emulsifier. Describe how you can prove the above statement, and what results would you see from your experiment?

**[10 marks]**

- b) Extrusion is a method used in producing man-made fibres. Discuss the three methods used in this process, and give an example of a fibre produced using each method.

**[12 marks]**

- c) Describe the difference between soft and hard water.

**[8 marks]**

**[Total = 30 marks]**

**QUESTION 4**

- a) Briefly explain four methods of fabric construction.

**[10 marks]**

- b) With the prevalence of HIV/AIDS in the country what would be the best method to use for washing the patient's garments? State the reasons.

**[12 marks]**

- c) For the above method to be realized, what considerations do you have to bear in mind when purchasing the labour saving equipment?

**[8 marks]**

**[Total = 30 marks]**