

1ST SEM. 2016/17

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UNIVERSITY OF SWAZILAND FINAL EXAMINATION PAPER

PROGRAMME

BACHELOR OF SCIENCE IN TEXTILE

APPAREL DESIGN AND MANAGEMENT YEAR

II

COURSE CODE :

TAD201

TITLE OF PAPER:

TEXTILE CARE

TIME ALLOWED:

TWO (2) HOURS

INSTRUCTIONS :

ANSWER QUESTION ONE (1)

AND ANY OTHER TWO (2) QUESTIONS

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TAD201 (M)

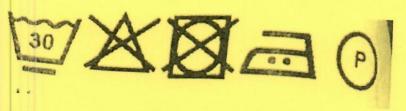
QUESTION 1(COMPULSORY)

a) Define soil release b) With the aid of properly labelled diagrams, explain the cleansing action of soap (2 Marks) c) State two (2) minerals commonly found in hard water (10 Marks) d) List five (5) problems caused by hard water in laundry (2 Marks) e) Boiling can be used to remove temporary hardness in water, with the help of chemical equations show how temporary hardness in water can be resolved through boiling f) Differentiate between precipitating and non-precipitating packaged water softeners (8 Marks) g) Name three (3) properties that can be imparted on a garment by fabric softeners (10 Marks) (3 Marks) [TOTAL MARKS = 40] **QUESTION 2** a) Define the term soap and using a graphical representation show how a soap molecule b) Define the term surfactant (5 Marks) c) Give three (3) differences between soaps and detergents (2 Marks) d) Name any two (2) stain removal techniques, and explain how they are carried out (6 Marks) e) Explain how the following stains can be removed from garments (6 Marks) (9 Marks) i. Blood ii. Tea iii. Chewing gum f) Why is it always advisable to wash protein stains in cold rather than hot water? (2 Marks) [TOTAL MARKS = 30]

QUESTION 3

a) Explain how you can get rid of persistent odour problems in garments (4 Marks)
b) Give five (5) different classes of stains, giving an example for each class (10 Marks)
c) Name two (2) chemicals that are normally used to impart soil repellence in fabrics, and state one major difference between the two chemicals
d) A garment has the following care label shown below given the interest of the contraction.

d) A garment has the following care label shown below, give a detailed explanation of the care regime for the garment (10 Marks)



e) Name two (2) effects that result from incorrect storage of garments

(2 Marks)

[TOTAL MARKS = 30]

QUESTION 4

a) Classify textile finishing according to performance giving two examples for each

b) Explain what is meant by the following terms:

(6 Marks)

(8 Marks)

- i. permanent finish
- ii. durable finish
- semi-permanent finish iii.
- iv. temporary finish
- c) Give four (4) reasons that can lead to loss of tensile strength in garments during laundering (4 Marks)

d) What is the role of anti-deposition agents found in detergents?

- e) Give an example of an anti-deposition agent that is effective with cotton fabrics, use a (2 Marks) graphic illustration to show how the agent works on cotton fabric surfaces (6 Marks)
- f) List four (4) factors that affect soil release in fabrics

(4 Marks)

[TOTAL MARKS = 30]