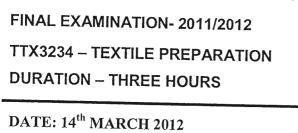
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TIME: 14.00 – 17.00 HOURS

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THE OPEN UNIVERSITY OF SRI LANKA

BACHELOR OF TECHNOLOGY/ BACHELOR OF INDUSTRIAL STUDIES.





| Reg. No.: Total number of questions is 10. Question number one is compuls carry (15) marks each. | Total number of questi | ons to be a ks. All othe | inswered is 06. er questions |
|--|-----------------------------|--|---|
| Co | Part 1 mpulsory question | | |
| Q1. (a) Name two (02) chemical cle | | | of fabrics. (02 Marks) |
| (II) | | | d top day and man can and min min min min man and man |
| b) List down (03) three impuritie | s found on wool. | | (03 Marks) |
| (11) | | | |
| (III) | | | |
| c) What do you understand by "c | carbonization of wool"? | | (03 Marks) |
| | | | |
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| (I) ———————————————————————————————————— | | /I) | | | | ed in des | | | |
|---|---|------------|---------------------------------------|---|--|---|--|--|--|
| State four (04) types of impurities removed by the scouring treatment of cotton. (02 Marks) (I) (II) (IV) State two mechanical cleaning methods available to clean a fabric at Grey Stat (02 Marks) (I) (II) (II) | | | | | | | | | and the second |
| State four (04) types of impurities removed by the scouring treatment of cotton. (02 Marks) (I) (II) (IV) State two mechanical cleaning methods available to clean a fabric at Grey Stat (02 Mark) (I) (II) (II) | | | | | | | 1 | | |
| (II)——————————————————————————————————— | | (III) | | 94 (cm max ton) cm mpl cm mp max max and table bell | er, et ill ill er, en et en en en en en en en en | | | ar (and seen seel term takes grow great week 2000 grow seem seed a | |
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| (III) | | | | | | | | | |
| State two mechanical cleaning methods available to clean a fabric at Grey Stat (02 Mark) | | | | | | | | | |
| State two mechanical cleaning methods available to clean a fabric at Grey Stat (02 Mark (II) | | | | | | | | | |
| State two mechanical cleaning methods available to clean a fabric at Grey Stat (02 Mark (II) | | | | | | | | | |
| State two mechanical cleaning methods available to clean a fabric at Grey Stat (02 Mark (I) (II) | | | | | | | | | |
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| (OO B# w.d. | | | | | | | | | |
|) Explain the term "scouring" (02 Mark | | (11) | | | | , i i i i i i i i i i i i i i i i i i i | , and that the tip you can also see her, such that the t | | وي ويل من جود الحد الحد أحد أحد أحد الحد الحد الحد الحد الحد الحد الحد ال |
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| n) What do you understand by "mercerization"? | (03 Marks) |
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| i) Name the bleaching agent that can be used on protein fibros as w cellulose fibres? | oll as on (03 Marks) |
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| h) What do you understand by the term "detergent"? | (02 Marks) |
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Part 2

Answer any five (05) questions from Q2 to Q10

(15 Marks) 2) What do you understand by the term "desizing" Briefly describe the methods available for desizing.

- 3) Using clear diagrams explain the process of kier boiling. (15 Marks)
- 4) Describe the mercerization process and point out the qualities acquired by a (15 Marks) mercerized cloth.
- 5) With the aid of clear diagram explain the counter current washing system and its (15 Marks) advantages.
- 6) Explain the following terms

(15 Marks)

- a. Anionic detergent
- b. Micelle
- c. (1) Chemical wash (2) Colloidal wash (3) Pigment wash
- With the aid of diagrams explain two machines used for chemical cleaning.

(15 Marks)

- 8) What is an optical brightening agent? Explain the action of optical brightening agents (15 Marks) on textile substrates.
- 9) Describe the methods used to evaluate efficiency of (15 Marks)

- a. Desizing and
- b. Scouring
- 10) Compare the processes of peroxide bleaching, with sodium chlorite bleaching, (15 Marks) pointing out the advantages.