



# MASENO UNIVERSITY

## UNIVERSITY EXAMINATIONS 2011/2012

### FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR THE CERTIFICATE IN TEXTILE DESIGN (CITY CAMPUS)

#### **ACTD 103: INTRODUCTION TO TEXTILES**

*Date: 13<sup>th</sup> April, 2012*

*Time: 2.00 – 4.00 p.m.*

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#### INSTRUCTIONS:

- ◆ This paper consists of two Sections, A and B.
- ◆ Answer ALL the questions in Section A (40 marks) in the spaces provided on the question paper.
- ◆ Answer ANY THREE questions from Section B (30 marks) in the answer booklet. Begin each question in this section on a new page. All questions in section B carry 10 marks each.

## SECTION A (40 Marks)

*Answer ALL questions in this section on the spaces provided on the question paper*

1) Define the following terms:

a) Fiber

b) Yarn

c) Fabric

d) Textile

d) Finish (5 Marks)

2) Differentiate between:

a) Natural fibres and Man-made fibres (2 Marks)

b) Plant fibers and Animal fibers (2 Marks)

3) State three reasons why we study textiles (3 Marks)

4) List the sequence of the manufacture of fabrics from raw materials to finished goods (3 Marks)

5) Fill the following table appropriately: (12 Marks)

THE BURNING TEST

	SMELL	FLAME AND ASH
WOOL		
SILK		
COTTON		
RAYON		

6) List five ways of producing fabrics from yarns and fibers (5 Marks)

7) State four characteristics of knitted fabrics (4 Marks)

8a) Give the reason why finishes applied to fibers or fabrics

b) Suggest four ways in which finishes can be classified (4 Marks)

## SECTION B [30 marks]

*Answer ANY THREE questions in this section in the answer booklet provided.  
Begin each question on a new page. All questions carry 10 marks each*

- 9) Describe in detail the construction and appearance of twill weave (10 Marks)
- 10) Discuss the application of the following finishes
  - a) Singeing and desizing (5 Marks)
  - b) Bleaching and scouring (5 Marks)
- 11) Describe the advantages and disadvantages of cotton (10 Marks)
- 12) Explain in detail why nylon is useful in making various articles (10 Marks)
- 13) Draw and label a diagram showing the classification of fibers (10 Marks)