



**MASENO UNIVERSITY**  
**UNIVERSITY EXAMINATIONS 2016/2017**

**FOURTH YEAR FIRST SEMESTER EXAMINATIONS FOR  
THE DEGREE OF BACHELOR OF ARTS IN TEXTILES AND  
APPAREL DESIGN WITH INFORMATION TECHNOLOGY**

**MAIN CAMPUS**

**ADT 440: MASS PRODUCTION AND PATTERN  
GRADING**

Date: 22<sup>nd</sup> November, 2016

Time: 12.00 - 3.00 pm

**INSTRUCTIONS:**

- This paper contains TWO sections A and B.
- Answer ALL questions from section A in the answer booklet provided.
- Answer ANY other TWO questions from section B.



**SECTION A- 30 MARKS**

Answer ALL questions from section A in the answer booklet provided

Q1. a) Define the following terms:

- i. Production line
- ii. Pattern grading
- iii. Work study (3mks)

b) Describe the procedure of developing a production pattern for a garment industry using a basic pattern block. (4mks)

c) Describe three (3) different methods used in garment analysis. (3mks)

Q2 a) Explain the procedure of taking four (4) horizontal measurements required for drafting the back bodice block pattern. (4mks)

b) Differentiate the following terms:

- i. A formal organization structure and informal organization structure
- ii. A product line and a balanced line
- iii. A make through system and a straight line system
- iv. Work measurement and work sampling (4mks)

Q3 a) Describe three (3) preparation processes a paper pattern would require before using it for laying and cutting out. (4mks)

b) Using an illustration, describe the layout and workflow of section system of production in a sewing room. (4mks)

c) Using a front bodice block diagram, explain using an illustration the grading of the pattern two grades up and two grades down. (4mks)

**SECTION B- 20 MARKS**

Answer any TWO questions from this section. Each question carries 10 marks.

Q4 a) Your friend is seeking information on 'plant layout' of a garment factory. Using an illustration explain to her the layout of a plant which use skill centre system. (5mks)

b) Using the back bodice quarter scale sloper, describe the procedure of adapting the pattern to produce a yoke on the back bodice. (5mks)

Q5. Using illustrations, discuss the progressive bundle system of sewing room systems. (10mks)

Q6. You have been asked to carry out garment analysis for a garment manufacturing firm. Explain aspects of garments which should be looked at during professional garment analysis process. (10mks)