

**ADVANCED DIPLOMA IN APPAREL STUDIES AND MERCHANDISING**

**Examination Paper**

**1<sup>ST</sup>** Term 2016

Module Name: Apparel Production and Management

Module Code: 750

Date: 5 Mar 2016

Time Allowed: **3 hours**

Reading Time: **15 minutes**

Examination Time: **2:45pm – 5:45pm**

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This question paper has **3** pages (including this page).

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**INSTRUCTION TO CANDIDATES:**

- This paper has **EDIGHT (8)** questions.
  - Answer any **FIVE (5)** questions
  - All questions carry equal marks.
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The following tools with an asterisk (\*) are **NOT ALLOWED** in the examination:

- Paperback Dictionary \*
- Electronic Dictionary \*
- Open Book Examination Material \*
- Programmable Calculator \*

**DO NOT TURN OVER THE PAGE UNTIL YOU ARE TOLD TO DO SO**

### Question 1

Describe in detail the objectives of work measurement techniques. (100 %)

### Question 2

(a) Describe the main purposes of the operation breakdown. (40 %)

(b) What are the factors that will govern the extent of the operation breakdown. (60 %)

### Question 3

(a) State the objectives of “line-balancing techniques” in the apparel manufacture. (60 %)

(b) Refer to the following information that provided, answer the following questions.

Production: Shirts

Production target: 1,600 garments per day (480 SMV)

Operation works at 8 hours per day.

Operations	Standard Minutes
Set Pocket	1.5
Join shoulder	0.48
Sew collar	0.96
Make sleeve	0.51
Set in sleeve & close side seam	1.2
Set in collar	1
Hem bottom	0.46
Button holing	0.53
Button sewing	0.51

i. How many operators should be assigned to each operation in order to produce 1,600 shirts per day. (20 %)

ii. Explain how you would balance the production line. (20 %)

### Question 4

(a) Describe in detail the basic components for an effective material handling system. (60 %)

(b) What are the factors affecting the choice of a proper material handling system? (40 %)

### Question 5

What are the factors that you will consider when choosing machinery & equipment. (100 %)

### Question 6

Discuss the factors affecting material utilisation in cutting room. (State any FIVE) (100 %)

### Question 7

There are many production systems employed in the apparel industry. Discuss & compare the main features & process of a “Straight line production system” & conventional bundle system”. (100 %)

### Question 8

You are received the following order: (100 %)

Quantity:	2,400 blouses				
Size:	A	B	C	D	E
Ratio:	1	2	4	2	1
Marker Length (M)	2	2.2	2.4	2.5	2.6

Other relevant information is as followed:

End allowances: 5 cm. per ply  
Max. number of plies: 200 plies  
Max. table length: 10 meters  
Clothing saving on multi-size and multi-garment market is 5%  
The fabric cost is \$45 per meters.

Show the economical way of cutting this order and the cost of the fabric..