



**ADVANCED DIPLOMA IN APPAREL STUDIES AND MERCHANDISING**

**Examination Paper**

1<sup>st</sup> Term, 2017

Module Name: Apparel Production and Management  
Module Code: 750  
Date: 17 Mar 2017  
Time Allowed: 3 hours  
Reading Time: 15 minutes  
Examination Time: 7:15pm – 10:15pm

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This question paper has 6 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

State and describe in detail the factors that will affect the material utilization in the cutting room. **(100 %)**

## Question 2

- (a) What are the factors that will be considered when choosing machineries and equipment ? **(70 %)**
- (b) What is “Preventive Maintenance”? **(30 %)**

## Question 3

Describe the advantages and disadvantages of using the following cutting equipment in the clothing factory.

- (a) Die cutter **(25 %)**
- (b) Band knife **(25 %)**
- (c) Circular cutter **(25 %)**
- (d) Straight knife **(25 %)**

## Question 4

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

## Question 5

- (a) A new blouse factory is set up and the production target is 1,000 blouses a day. The working day is 8 hours. (480 SMV)

Each operation SMV is as follow.

operations	Standard minutes/garment(SMV)
1. Set pocket	3.1
2. join shoulder	1
3. set collar	2
4. make sleeve	1.1
5. set in sleeve and close side seam	2.5
6. set in collar	2.1
7. hem bottom	0.95
8. button holing	1.1
9. Button sewing	1.05

- i) How many operators are required to meet the production target? **(20 %)**
- ii) Explain how you would balance the line? **(20 %)**
- (b) Explain briefly the reasons of the line-balancing techniques. **(60 %)**



## Question 6

You are required to cut the following order by using the following information.

Size	30	32	34	36	38
Quantity	100	150	200	175	75
Marker length (single garment)(M)	2.0	2.1	2.2	2.3	2.5

	1 gmt.	2 gmt.	3 gmts.	4 gmts.
Spreading time per ply:	0.75 min.	0.8 min.	0.85 min.	0.9 min.
Marker preparation time:	0.5 hr.	0.75 hr.	0.9 hr.	1 hr.

Fabric cost:	\$ 80 per meter
Cutting time per garment marked:	15 minutes
Maximum lay height	100plies
Maximum garment per marker	4
Labour cost:	\$ 60 per hour
End wastes:	5 cm. per ply
Cloth saving on a multi-size or multi-garment marker is 5%	

Calculate the total cutting room cost using an economical lay planning.

**(100 %)**

## Question 7

What are the factors that you will consider when you select a proper Material Handling System in sewing room.

**(100 %)**

## Question 8

(a) State the key operation of the F.O.F. handling system and its advantages.

**(60 %)**

(b) What are the main purpose of operation break down.

**(40 %)**

**- END -**