

B.TECH., DEGREE EXAMINATIONS: MAY/JUNE 2013

Sixth semester

FASHION TECHNOLOGY

FTY115 : Apparel Production Planning and Control

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Lead time means
 - a) Best season for mass production
 - b) Time taken to Process the Garment
 - c) Time from confirmation to shipping the order
 - d) Time taken for sewing
2. PDM stands for _____
 - a) Product development management
 - b) Product design management
 - c) Product data management
 - d) Process data management
3. If low volume and more variety is to be produced, -----layout is used
 - a) Process
 - b) batch
 - c) product
 - d) job
4. -----layout is preferred for mass production.
 - a) Product
 - b) Process
 - c) Vertical
 - d) Group
5. The objective of bundle ticket is -----
 - a) to indicate color of garment
 - b) to the customer
 - c) to indicate size of garment
 - d) to facilitate production control
6. Longer throughput time, large inventory, extra handling, poor quality concealed are problems of -----production system
 - a) PBS
 - b) JIT
 - c) UPS
 - d) MODULAR
7. GANTT chart is mainly used for
 - a) Loading
 - b) Dispatching
 - c) Scheduling
 - d) Routing

(ii) Compare product layout and process layout

23. a) Illustrate the principles involved in Flow process Grid construction, with an example

(OR)

b) Calculate the minimum number of lays required to cut the fabric using the following data

Size ratio	S	:	M	:	L	:	XL
Navy	100	:	200	:	200	:	100
White	175	:	150	:	150	:	125

Maximum lay height – 60 plies

Maximum number of garments marked in the lay length – 5 garments.

If number of plies is reduced to 50, calculate number of garments to planned in single lay.

24. a) Explain the backlog graph with and without bottleneck problems

(OR)

b) Design and explain a template for a)cutting ticket b)Operator scheduling sheet

25. a) For an operator working in sewing floor, if SAM is 0.45 min, calculate

- i) Target at 100% efficiency for a shift of 8 hrs
- ii) Capacity per day if actual efficiency is 65%
- iii) Capacity per hour

(OR)

b) Operation and time required for each machine in a sewing line is given as follows .Calculate the total number of units produced per hour and per 8hr shift. Calculate the number of machines required to balance the line to produce the target of 192pcs/shift.

OPERATION	TIME REQUIRED FOR ONE UNIT
1	15min
2	20min
3	30 min
