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V 4179

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2008.

Seventh Semester

Textile Technology (Fashion Technology)

FT 1010 — PRODUCT ENGINEERING AND PLANT LAYOUT

(Regulation 2004)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the three basic woven fabric grain orientations for draping?

2. What are the factors to be considered in drafting men's shirtsleeve?

3. What are the basic functions of manufacturing information systems?

4. How does standard data influence precasting?

5. What are the factors measured for evaluating spreading quality?

6. How do you control cutting costs?

7. What are the various cost factors involved to evaluate plant layout?

8. What are the steps involved in planning a production layout?

9. What are basic principles for defining the elements of a work cycle?

10. How will you improve the cutting operation method?

PART B — (5 × 16 = 80 marks)

11. (a) Explain the detailed drafting procedure for Men's trouser and discuss on pattern information for the components. (10 + 6)

Or

(b) Discuss on principles of draping and product specifications with an example. (8 + 8)

12. (a) Discuss on the manufacturing information system in apparel industry with an example.

Or

(b) Explain the types of basic production systems and construction flow process grid for T-shirt. (8 + 8)

13. (a) Explain the quality evaluation procedures in spreading and cutting department and discuss on suitable remedial measures. (8 + 8)

Or

(b) Prepare the cost sheet for any one woven garment.

14. (a) Explain the different types of garment production layout and suggest the suitable layout for the following styles :

(i) Skirt (8)

(ii) Blazer. (8)

Or

(b) Discuss in detail on the Government regulations for plant layouts.

15. (a) Explain the following :

(i) Statistical calculations of time study (8)

(ii) Data required for time and motion study. (8)

Or

(b) Discuss on the factors for improving sewing and pressing operations.

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