

L 1104

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2006.

Fourth Semester

Textile Technology (Fashion Technology)

FT 1254 — GARMENT PRODUCTION MACHINERY AND EQUIPMENT — I

(Regulations 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What precaution should be taken when laying symmetrical and asymmetrical patterns?
2. What is the role of tension while spreading the fabric?
3. What measures you will take to avoid unscorched and unfused edges during cutting?
4. Which type of seam are preferred for jeans and shirts? Why?
5. What will be needle size in metric system for a synthetic ticket number?
6. How does needle friction affect the material while stitching?
7. For which class of stitch a tongue and chaining plates used?
8. What is the capacity of thread in a bobbin spool?
9. What are direct and indirect thread tensioners?
10. What is the effect of Feed timing on sewing?

PART B — (5 × 16 = 80 marks)

11. (i) Explain in brief the basic parts of sewing machine with neat sketch.
(ii) What do you mean by loop spreaders.
12. (a) (i) What is meant by one way and two way fabrics and explain their effect on spreading? (6)
(ii) Explain the different methods of spreading. (10)

Or

- (b) Compare manual and computerized spreading and explain how computer marker making is done (16)
13. (a) (i) Explain the significance and functions of a Band knife cutting. (10)
(ii) Explain plasma and ultra sonic cutting. (6)

Or

- (b) (i) Discuss the functions of a computer controlled cutting machine. (10)
(ii) Write the advantages and functions of notchers and drills markers. (6)
14. (a) How does seam appearance and seam performance related to thread properties? Discuss. (16)

Or

- (b) (i) Mention the factors which effect the seam quality. (6)
(ii) Discuss in brief the different types of needles in sewing with neat sketches. (10)
15. (a) Write short notes on :
(i) Single needle lock stitch adjustments. (10)
(ii) Sewing machine defects and remedies. (6)

Or

- (b) (i) Differential feed ratio and stitch length selection and (ii) stitch cycle timing diagram. (16)