E 9126

B.Sc. (Applied Science) DEGREE EXAMINATION, NOVEMBER/DECEMBER 2005.

Sixth Semester

Apparel and Fashion Technology

FT 6.3.4 — CAD/CAM FOR APPAREL MANUFACTURE

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Name some of the different types of fabrics known to you.

2. Describe the concept of overlays/'multiple planes' as used in digital design software.

3. List the equipment used in a digital cutting room.

4. What is 'curve editing' in digital pattern making?

5. Name the different types of knives used for manual and automatic cutting of fabrics.

6. Name some of the models of computerized sewing machines known to you.

7. What are the differences in preparing a 'layout' onto a printed fabric as compared to a plain fabric?

8. Name the equipment found in a computerized design unit.

9. What is "Grading"? How can a computer perform this operation?

10. Briefly discuss the use of the Lectra magnetic board in digital designing.

PART B — (5 × 16 = 80 marks)

11. (i) Briefly explain the meaning of the term "Layout" as used in garment design and explain how a computer can assist in this operation. (8)

(ii) How is a maintenance schedule prepared using a computer? (8)

12. (a) Name some of the defects that occur in fabrics. Discuss how computers can study and identify such fabric defects.

Or

(b) Discuss the role of computers in the quality control of the various garment-making processes.

13. (a) Describe the process of market making and explain how it can be computerized.

Or

(b) Explain the spreading and cutting operation and discuss how it can be computerized.

14. (a) Name the components of any one commercially available CAD system for apparel manufacture and describe the working of the various components.

Or

(b) Discuss the different ways in which traditional designs and patterns can be 'entered' into a computer and the different ways in which the designs stored in a CAD system can be applied to fabric.

15. (a) Describe the use of CAD/CAM technology in the planning and management of a garment unit and discuss the advantages of this technology compared to traditional methods of management.

Or

(b) Outline conventional methods of raw materials procurement, inventory control, scheduling etc. and discuss the changes that have come in these areas with the introduction of computers and computer networks.
