

A 284

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2005.

Fifth Semester

Fashion Technology

FA 216 — KNITTED FABRIC STRUCTURE

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the basic stitches of weft knitting?
2. List out the various patterning mechanisms for circular knitting.
3. Draw symbolic and diagrammatic notations for the basic stitches of weft knitting.
4. What do you mean by needle gaiting and yarn plaiting?
5. What do you mean by Eight Lock Single Pique structure?
6. What are the basic requirements of interlock knitting?
7. What are the elements of warp knitting?
8. Draw the types of chain links used in warp knitting.
9. What do you mean by fleece fabrics?
10. What do you mean by Rack and Quality in warp knitting?

PART B — (5 × 16 = 80 marks)

11. (i) With suitable neat sketches, discuss the line diagram, diagrammatic and symbolic representation of single jersey, rib, purl and interlock fabrics. (8)
- (ii) Give a detailed account on the impact of knit, tuck and float stitches on the characteristics of weft knitted fabrics. (8)
12. (a) With suitable diagrams, discuss in detail the various needle selection techniques used for circular knitting.

Or

- (b) Give a detailed account on the various derivatives of single jersey fabrics with suitable diagram.
13. (a) Discuss the following :
- (i) Half cardigan and full cardigan of rib structure. (8)
- (ii) Derivatives of interlock structure. (8)

Or

- (b) With suitable diagrammatic notations, discuss the following structures :
- (i) Ponte-di-roma (8)
- (ii) Swiss pique. (8)
14. (a) With the help of chain link diagrams and lapping diagrams, explain how the following guide bar lapping notations can be achieved.
- (i) 1 - 0/1 - 2 (8)
- (ii) 1 - 0/4 - 5. (8)

Or

- (b) With neat lapping diagrams, explain the following 2-bar warpknit structures :
- (i) Full tricot (8)
- (ii) Lock knit (8)
15. (a) With suitable diagrams, explain the following :
- (i) French terry (8)
- (ii) Thick fleece. (8)

Or

- (b) Discuss the production of lycra knitted fabrics with special reference to their different applications.