

PART B — (5 × 16 = 80 marks)

11. (a) Give a neat 4 × 4 representation of the basic weft-knit structures such as single jersey, rib, purl and interlock by using symbolic and diagrammatic notation.

Or

- (b) With suitable diagram, give a detailed account on the various needle selection techniques used with the circular knitting machines.
12. (a) Give a detailed account on the various important derivatives of the single jersey structures.

Or

- (b) Give a detailed comparison on the characteristics of single jersey, rib, purl and interlock structures for their appearance, weight, strength, extension, thickness, dimensional stability etc.
13. (a) With suitable representation diagram, discuss the following :
- (i) Derivatives of rib structure.
 - (ii) Derivatives of interlock structure.

Or

- (b) With neat sketches, discuss the following double knit structures
- (i) Ponte-di-roma
 - (ii) Milano rib.
14. (a) With suitable diagrams discuss the various lapping principles used in warp knitting for the production of different warp knitted structures.

Or

- (b) With the help of guide bar lapping diagrams, discuss the following two bar-full set tricot fabrics.
- (i) Locknit
 - (ii) Sharkskin.

15. (a) Give a detailed account on the various factors influencing the structure and characteristics at warp knitted fabrics.

Or

- (b) Discuss the following :
- (i) Loop raised fabrics
 - (ii) Three bar fabrics.
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