

Reg. No. :

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**V 4641**

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

Fifth Semester

Textile Technology

TT 1301 — KNITTING TECHNOLOGY

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Name the functional cam plates used in weft knitting cams.
2. What do you mean by needle loop and sinker loop.
3. Draw the diagrammatic notations for the basic stitches of weft knitting.
4. State the advantages of the cadretex take-down device.
5. What are the essential requirements for interlock knitting.
6. What do you mean by loop-transfer in flat knitting.
7. What are the basic elements of warpknitting machines.
8. Differentiate between overlap and underlap.
9. Draw the guide bar lapping diagrams for the following notations.
  - (a) 1-2/1-0
  - (b) 1-0/0-1.
10. What do you mean by the term Tightness factor in knitting.

PART B — (5 × 16 = 80 marks)

11. (a) With suitable diagrams, give a detailed account on the functional elements of weft knitting. (16)

Or

- (b) (i) Discuss the important quality requirements to be considered in selecting yarns for knitting. (10)  
(ii) Differentiate between the weft and warp knitting. (6)

12. (a) With suitable diagrams, discuss the various derivative of the single jersey structure produced with the plain knitting machine.

Or

- (b) With neat sketches, explain one complete knitting cycle for Rib knitting.

13. (a) (i) Classify the flat knitting machines in detail. (4)  
(ii) With a neat sketch, explain the yarn path in flat knitting, showing the various knitting elements. (12)

Or

- (b) Give a detailed account on the basic plain and rib fabrics produced with flat knitting machines.

14. (a) (i) Classify the warpknitting machines. (4)  
(ii) With neat sketches, discuss the basic elements of warpknitting. (12)

Or

- (b) With suitable lapping diagrams, discuss the following two bar full set Tricot fabrics. (4 × 4)  
(i) Full tricot  
(ii) Locknit  
(iii) Satin  
(iv) Sharkskin.

15. (a) Discuss in detail the various defects occurred with the circular knitted fabrics by stating their causes and remedies.

Or

- (b) Give a detailed account on the various quality control tests to be carried out for the knitted fabrics.
-