

Roll No.

Total Pages : 3

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BT-6/M-24

KNITTING TECHNOLOGY

Paper : PCC-TEX-306-A

Time : Three Hours]

[Maximum Marks : 75

- Note :** (i) All questions carry equal marks. Question No. 1 is compulsory.
(ii) Attempt *five* questions in total, selecting at least *one* question from each unit.

Compulsory Question

1. Attempt all parts : (5×3=15)
- (a) What is Feature of Compound needle?
 - (b) What is the characteristic of Rib Knit?
 - (c) Explain briefly Dimension Parameters in Knit fabric.
 - (d) What do you understand of Over Lap and Under Lab?
 - (e) Compare between the Plain, Tuck and Float Stitches.

UNIT-I

2. What is the structure of Woven and Knitted fabric?
Compare between the Warp and Weft Knitted fabric.
And also explain the Weft Knitting Elements. 15

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3. With the help of neat sketches, discuss the working of Knitting needles, sinkers and cams used in Weft knitting machines. Also mention their parts. What are the Yarn quality requirements for Weft Knitting? 15

UNIT-II

4. What is the Characteristic of Purl and Interlock Knit structure? And also explain their Working with the help of neat sketch. 15
5. Explain the Principles and Elements of Mechanical Flat Knitting machine. 15

UNIT-III

6. Discuss with the help of suitable diagrams the structure and production of various types of stitches used in weft knitted fabrics. 15
7. What is the characteristic of the Warp Knit structure? Explain the working principle of Tricot Knitting machine and its parts. 15

UNIT-IV

8. Calculate the productivity in number of courses per minute and the production in meters per 4 hours of a plain circular weft knitting machine producing plain fabric with 20 courses/cm at 95% running efficiency. Consider the total number of Feeders to be 50 and the machine speed to be 30 rpm. 15

9. Explain the working of the Seamless Knitting with diagram and also its advantages. Application of warp and weft knit fabric in Technical Textile. 15
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