

Roll No.

Total No. of Pages : 2

BT-6/M09

9854

Knitting Technology

Paper : TT- 308

Time : Three Hours]

[Maximum Marks : 100

Note :- Attempt any FIVE questions in all, selecting at least ONE question from each unit. All questions carry equal marks.

UNIT-I

- 1. (a) "Knitted fabrics are more extensible but poor elastic recovery than woven fabrics." Justify the statement. 4
- (b) What are the difference between rotating cam box system and rotating cylinder system ? Why rotating cam box system is not used now a day ? 6
- (c) How high speed is achieved by compound needle ? 4
- (d) Describe different parts and their functions of a sinker and a cam system for single jersey weft knitting machine. 6
- 2. (a) Differentiate between face and back loops. 4
- (b) Explain different parts and their functions of a Latch needle in detail with proper sketch. 10
- (c) Show the classification of weft knitting machine in detail. 6

UNIT-II

- 3. (a) Why does rib fabric cannot be unroved from the course knitted first ? Explain. 4
- (b) Why is rib fabric preferred to single jersey fabric for body fitting outer garment in the western world ? 2
- (c) How Rib fabric is different from purl fabrics in regard to their structure and property ? 10
- (d) Why does rib fabric have more extensibility in width wise direction ? 4

- 4. (a) Define Knit, Tuck and Float stitches with the help of suitable diagrams. 8
- (b) Why should tucks not be more than four courses on the same needle ? 3
- (c) Differentiate between Single pique and Texi pique in regard to their fabric structures, properties and clearing cam positions of different feeders. 9

UNIT-III

- 5. (a) Derive the expressions for Areal Density and Fractional cover for weft knitted fabrics. 10
- (b) Define Tightness factor. How is it different from fractional cover ? 4
- (c) What are Ks, Kw and Kc in knitting ? What are their significance ? 6
- 6. (a) If the stitch density of a finished relaxed knitted fabric is 88.2 stitches/cm², estimate the number of courses/cm and wales/ cm from the value of Kc/Kw = 1.32. 8
- (b) What are the different quality requirements for a knitted yarn ? Discuss in detail. 10
- (c) What is positive feeding ? 2

UNIT-IV

- 7. (a) Explain knitting cycle of needle for a Raschel machine. 12
- (b) Why does fabric take up is almost at right angle to the needle bed for Tricot machine ? 4
- (c) Differentiate-between closed lap and open lap. 4
- 8. (a) Why Sharkskin structure can be printed while many others knitted fabric cannot be ? 5
- (b) Explain the structure and properties of the following fabrics :-
 - (i) Reverse Lock-knit
 - (ii) Queen's cord
 - (iii) Satin. 15

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