BT-6/JX

Knitting Technology

Roll No.

2.

Explain the functions of various cams in the cam system of

Give the knitting cycle of a bearded needle with proper

Total No. of Pages: 3

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SECTION-B

a west knitting machine,

figures.

3. (a) What is laddering effect in plain knits?

How are the west knitting machines classified?

(b) Define needle timing and state its importance in rib knitting.

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- (c) How are the purl fabrics manufactured? What are their properties and uses?
- (d) Why does the rib width change with an increase in repeat?
- 4. (a) How are Tuck and Float stitches prepared? What are the various characteristics of Tuck and Float stitch structures?
 - (b) Give the structure and properties of the following west knit derivatives:
 - PUNTO DI ROMA
 - (ii) LACOSTE
 - (iii) EIGHT LOCK
 - (iv) FAIR ISLE
 - (v) SWISS PIQUE.

5×2=10

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SECTION-C

- (a) A plain knitted fabric is produced from 80 Tex worsted yarn on a machine of 46 cm diameter with 4 needles/cm. Determine the mass/running meter of a fabric in the finished relaxed state. Given K_c = 56.
- (b) Define Tightness factor. State its significance.
- (c) Calculate the length in 'metres' of a plain single jersey fabric knitted at 14 cpcm and 20 wpcm on 20" diameter, 18 gauge machine having 110 feeders. The machine operates for 8 hours at 30 rpm and 90% efficiency. Also calculate the fabric width.
- (d) What is the role of yarn tension in knitting process? How is it controlled during knitting?

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| 5. | (a) | What | are | the | different | types | of | knitting | fabric | defects | ? |
|----|-----|-------|-------|-------|------------|--------|------|----------|--------|---------|---|
| | | Discu | ss th | eir e | causes and | l reme | die: | 5. | | 1 | 0 |

(b) Calculate the weight/square meter and weight/running meter of a plain knitted fabric assuming the suitable data. 10

SECTION-D

- 7. (a) Describe the knitting cycle of TRICOT warp knitting machine with proper figures.
 - (b) Give the structure and properties of a ATLAS fabric explaining the various overlap and underlap combinations.
 - (c) Differentiate between TRICOT and RASCHEL warp knitted structures.
 - (a) Compare warp knits, weft knits and woven fabric on the basis of the properties they exhibit.
 - (b) Describe the five basic lapping movement variations used in warp knitting alongwith their properties.

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