22463

12425

3 Hours / 70 Marks Seat No. | | | | | | | | |

Instructions : (1) All Questions are *compulsory.*

(2) Illustrate your answers with neat sketches wherever necessary.

(3) Figures to the right indicate full marks.

(4) Assume suitable data, if necessary.

(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE : **10**

(a) List down the various methods of fabric forming systems.

(b) State any four applications of Knitted fabric.

(c) Enlist various types of stitches used in weft knitting.

(d) State any four characteristics of Rib knit structure fabric.

(e) Draw the thread line diagram of Interlook structure.

(f) Define ways of knitting and weft knitting.

(g) Define tightness factor with formulae.

2. Attempt any THREE : **12**

(a) Differentiate between Weaving and Knitting with respect to its process and fabric properties.

(b) Enlist various types of knitting needles. Explain any one of them with neat sketch.

(c) Enlist various knitting elements of plain single Jersey circular knitting machine. Explain any two of them with neat sketch.

(d) Differentiate between single Jersey and Rib structure fabric with respect to its characteristics.

3. Attempt any THREE : **12**

(a) Differentiate between weft knitting and warp knitting (any 8 points).

(b) Define the following terms :

(i) Course

(ii) Stitch length

(iii) Wales

(iv) Open loop

(c) Draw the neat labelled sketch showing passage of yarn through flat knitting machine. Also list down various knitting elements of flat knitting machine.

(d) Draw the loop diagram and graphical representation of Interlock structure. Also state the characteristics of Interlock structure.

4. Attempt any THREE : **12**

(a) State the reason for the growth of knitting industries.

(b) Classify the knitting machines in detail.

(c) Explain overlap and underlap with diagrams.

(d) Explain pillar stitch with lapping movement diagram.

(e) Explain the effect of stitch length on the properties of knitted fabric.

5. Attempt any TWO : **12**

(a) A single jersey fabric is made on a machine with 2000 needles with 30 courses per inch from 20^s cotton count yarn and 80 stitches per foot. Calculate the weight per linear meter.

(b) Describe the passage of the yarn on Tricot Warp Knitting machine with neat sketch.

(c) Describe the passage of the yarn through single jersey circular weft knitting machine, with neat sketch.

6. Attempt any TWO : **12**

(a) Explain the knitting elements of the Tricot warp knitting machine with neat sketch.

(b) List down various knitted fabric defects. Explain any four of them with its cause and remedies.

(c) Explain the ornamentation of plain single jersey fabric with respect to yarn count yarn colour, twist and material.
