17459

15162

3 Hours / 100 Marks Seat No. | | | | | | | | |

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

(2) Answer each next main Question on a new page.

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

(4) Figures to the right indicate full marks.

(5) Assume suitable data, if necessary.

(6) Use of Non-programmable Electronic Pocket Calculator is permissible.

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

Marks

1. Attempt any FIVE from following : **20**

(a) Define warp and weft knitting.

(b) Enlist any four objects of creel and positive feeder.

(c) Enlist and draw the loop structure of various types of knitted fabric.

(d) Draw the diagrammatic notation for ottoman rib structure.

(e) State the function of stripper.

(f) Define the angle of spirality.

(g) State the functions of cams in flat knitting.

2. Attempt any FOUR : **16**

(a) Define the course and wale.

(b) Enlist the different types of needles used in weft knitting.

(c) Compare the rib fabric and purl fabric.

(d) Draw the loop diagram for knit stitch and purl stitch.

(e) Define and draw the stitch length.

(f) State the concept of fabric bow.

3. Attempt any FOUR : **16**

(a) Enlist various factors responsible for growth of knitting industry.

(b) List various zones in single jersey machine and state objects of each zone.

(c) Draw the diagrammatic notation for interlock fabric.

(d) Draw the symbolic notation for (i) tuck stitch (ii) miss stitch.

(e) Draw the loop diagram for three thread fleecy fabric.

(f) State the meaning of G.S.M. and give its formula.

4. Attempt any FOUR : **16**

(a) Explain briefly about various methods to produce fabric.

(b) Calculate total no. of needles if cylinder gauge is 24 and diameter 34".

(c) Draw symbolic notation for

(i) single jersey

(ii) 1×1 purl fabric.

(d) State the concept of needle order and cam order with example.

(e) State advantage of relanit technique in weft knitting.

(f) Calculate tightness factor if stitch length 2.5 mm and yarn count is 40 Ne.

5. Attempt any FOUR : **16**

(a) (i) State the function of fabric spreader.

(ii) Draw the trick arrangement diagram for rib fabric (1×1).

(b) Compare warp knitting with weft knitting for four points.

(c) Give detail classification for flat knitting.

(d) State the functions in cutting department of garment industry.

(e) State various precautions to be taken while cutting the knitted fabric.

(f) (i) Draw the symbolic notation for La-coste fabric.

(ii) Calculate stitch density in square meter, if knitted fabric having

(1) C.P.I : 30

(2) W.P.I. : 24

6. Attempt any TWO : **16**

(a) State the functions of following elements in warp knitting :

(i) Needle bar

(ii) Pattern drum and chain link

(iii) Trick plate

(iv) Latch wire

(b) Draw the lapping movement diagram for following chain notations :

(i) 1 – 0 / 1 – 2 //

(ii) 0 – 1 / 2 – 1 //

(iii) 0 – 1 / 0 – 1 //

(iv) 1 – 0 / 1 – 0 //

(c) (i) Draw the schematic diagram of passage of yarn through flat knitting machine.

(ii) Describe the various steps while reproducing the knitted garment.

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