

17464

15162

3 Hours / 100 Marks

Seat No.

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- 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 :

20

- (a) Draw and define weft knitting.
- (b) State the functions of cylinder and cams in weft knitting.
- (c) Draw the loop structure for
 - (i) 2×2 purl structure
 - (ii) single jersey structure
- (d) Enlist various principle stitches used in weft knitting.
- (e) State meaning of G.S.M. and give its formula.
- (f) Define overlap and underlap.
- (g) Define warp knitting.

2. Attempt any FOUR :

16

- (a) Compare woven fabric with knitted fabric.
- (b) Draw the Latch needle and label it.
- (c) Explain the four important features of rib machine.
- (d) State meaning of ornamentation in knitted fabric and give two examples.
- (e) Calculate stitch length if course length is 6.25 meter and total no. of needles are 2500.
- (f) State any four application of warp knit fabric.

3. Attempt any FOUR :**16**

- (a) Define :
 - (i) Course
 - (ii) Wale
 - (iii) Face loop
 - (iv) Purl stitch.
- (b) Draw the schematic figure of compound needle and label its parts.
- (c) State the needle arrangement for 1×1 rib fabric and draw it.
- (d) Draw the symbolic and diagrammatic notation for half cardigan design.
- (e) State the meaning of tightness factor and give its formula.
- (f) Give the classification of warp knitting machine.

4. Attempt any TWO :**16**

- (a) Draw the beamed needle and explain knitting action of it with suitable diagram.
- (b)
 - (i) Compare Tricot and Rachel machine.
 - (ii) State various principle stitches used in warp knitting and show their chain notation.
- (c) Explain the knitting cycle for Rachel machine with suitable figure.

5. Attempt any TWO :**16**

- (a) Explain working of flat knitting machine with suitable knitting cycles.
- (b) State causes and remedies for following weft knit fabric defects and explain the defect
 - (i) Fabric body
 - (ii) Spirality
- (c)
 - (i) Compare flat knitting with circular weft knitting.
 - (ii) State the procedure to find out stitch length of knitted fabric.

6. Attempt any TWO :**16**

- (a) Draw the lapping movement diagram for following chain notation :
- (i) $1 - 0 / 1 - 2 //$
 - (ii) $0 - 1 / 0 - 1 //$
 - (iii) $1 - 0 / 3 - 4 //$
 - (iv) $1 - 0 / 2 - 3 //$
- (b) (i) Show the needle arrangement and trick arrangement for interlock fabric.
- (ii) Draw the diagrammatic notation for
- (1) Knit stitch
 - (2) Purl loop
 - (3) Miss stitch
 - (4) Tuck stitch
- (c) (i) Calculate the G.S.M. of knitted fabric if
- (1) C.P.I – 30
 - (2) W.P.I. – 24
 - (3) Yarn count : 40 Ne
 - (4) Stitch length : 2.5 mm
- (ii) Differentiate between pattern wheel and pattern drum.
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