

17464

15116

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 of the following :** **20**
- a) “Knitted fabrics are stretchable.” Justify the statement with suitable reasons.
 - b) Draw and define the knit stitch
 - c) Draw the loop diagram for
 - (i) Single jersey fabric
 - (ii) 1×1 rib fabric
 - d) Express diagrammatic notation for
 - (i) tuck stitch
 - (ii) miss stitch

P.T.O.

- e) Calculate G.S.M. of a weft knitted fabric having following particulars.
 - (i) Course/cm = 15
 - (ii) Wales/cm = 22
 - (iii) Stitch length = 0.15 inches
 - (iv) Count of yarn = 20^s Ne
- f) Define following warp knitting terms.
 - (i) Overlap
 - (ii) Underlap
 - (iii) Open lap
 - (iv) Closed lap
- g) Enlist various principle stitches used in warp knitting.
- h) Draw symbolic notations for following double knit structures.
 - (i) Punto di roma
 - (ii) Texi Pique

2. Attempt any TWO of the following :

16

- a) State the functions of following parts
 - (i) Needle
 - (ii) Sinker
 - (iii) Cam
 - (iv) Positive feeder
 - (v) Creel
 - (vi) Closed guiding tube
 - (vii) Fan in creel
 - (viii) Take up zone
- b)
 - (i) Classify the warp knitting machine
 - (ii) State any four applications at warp knitted fabrics.
- c) State the working of flat knitting machine with help of suitable figures.

3. Attempt any TWO of the following : **16**

- a) Compare rib knitting with interlock knitted for eight points.
- b) (i) Give detail classification for weft knitting machine.
(ii) State the importance of needle butt and explain the need of different butt position in needle.
- c) State the features of purl knitting m/c w.r.t.
 - (i) Type of needle
 - (ii) Cylinder
 - (iii) Needle transfer
 - (iv) Features of purl fabric

4. Attempt any TWO of the following : **16**

- a) Express the symbolic notations for following structures.
 - (i) La-coste
 - (ii) Half-cardigan
 - (iii) Eight lock structure
 - (iv) Jersey blister
- b) (i) State the features of single jersey fabric.
(ii) Enlist various knitting elements and write there function, used for flat knitting m/c.
- c) Calculate knitting m/c production in meter/day and pound/day If knitting m/c running with following particulars.
 - (i) C.P.I. : 30
 - (ii) Gauge : 24
 - (iii) Cylinder dia : 34"
 - (iv) No. of feeders : 108
 - (v) R.P.M. : 20
 - (vi) Efficiency : 85
 - (vii) Stitch length = 0.15 inch
 - (viii) Count of yarn - 30^s

5. Attempt any TWO of the following :**16**

- a) State the function of following parts in warp knitting.
 - (i) Needle bar
 - (ii) Sinker bar
 - (iii) Presser bar
 - (iv) Chain link
- b) (i) Compare knit stitch with tuck stitch
(ii) State the concept of tightness factor and give its formula.
- c) Draw the chain notation and lapping movement diagram for
 - (i) Tricot stitch
 - (ii) Atlas stitch

6. Attempt any TWO of the following :**16**

- a) Explain various methods to represent warp knitted fabric on paper.
 - b) (i) State the procedure to determine the weight per unit area of knitted fabric.
(ii) Define following terms.
 - (1) Under lap
 - (2) Stitch density
 - c) State the meaning, causes and remedies for following defects
 - (i) Fabric bow
 - (ii) Fabric Barre
 - (iii) Drop stitches
 - (iv) Fabric skew
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