

17464

14115

3 Hours / 100 Marks

Seat No.

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- Instructions :** (1) All Questions are *compulsory*.
(2) Answer each Section on same / separate answer sheet.
(3) Answer each next main Question on a new page.
(4) Illustrate your answers with neat sketches wherever necessary.
(5) Figures to the right indicate full marks.
(6) Assume suitable data, if necessary.

Marks

1. Solve any FIVE :

20

- (a) Define the warp and weft knitting.
- (b) State the various reasons for growth of knitting industry.
- (c) State the functions of following element :
 - (i) Cylinder
 - (ii) Cams
- (d) State the importance of stripper mechanism.
- (e) Draw the loop structure of warp knitted fabric.
- (f) Give the classification of flat knitting machine.
- (g) Define the “Angle of Spriality”.

2. Solve any TWO :

16

- (a) Define and draw the following terms in knitting :
 - (i) Course
 - (iii) Face loop
 - (ii) Wale
 - (iv) Back loop
- (b) Compare the interlock machine with Rib Machine. (eight points)
- (c) State the concept of ornamentation of plain knit fabrics and draw symbolic notation for following structure :
 - (i) La cosle
 - (ii) Thick Fleece



P.T.O.

- 3. Solve any TWO :** **16**
- (a) Write a note on purl knitting machine w.r.t. following points :
 - (i) Type of cylinder
 - (ii) Principle of needle transfer
 - (iii) Type of needle
 - (iv) Properties of purl fabric
 - (b) Draw symbolic and diagrammatic notation for following stitches :
 - (i) Knit stitch (iii) Tuck stitch
 - (ii) Purl stitch (iv) Miss stitch
 - (c) Determine the G.S.M. and tightness factor for knitted fabric :
 - (i) C.P.I. : 30 (iii) Loop length : 3 mm
 - (ii) W.P.I. : 24 (iv) Yarn count : 20 tex.
- 4. Solve any TWO :** **16**
- (a) State the feature of single jersey machine. Draw the loop structure of it and list the properties of single jersey fabric.
 - (b) What is stitch length ? Explain how the stitch length is determined with suitable example.
 - (c) State and draw the following terms in warp knitting :
 - (i) Overlap (iii) Open lap
 - (ii) Under lap (iv) Closed lap
- 5. Solve any TWO :** **16**
- (a) Compare the tricot machine and Rachel machine.
 - (b) Enlist the various elements of flat knitting m/c and write their functions.
 - (c) Describe defects and remedies in knitted fabrics.
- 6. Solve any TWO :** **16**
- (a) Give the detail functions of following element in warp knitting :
 - (i) Chain link (iii) Pattern drum
 - (ii) Pattern wheel (iv) Needle bar
 - (b) State the importance of following elements in warp knitting :
 - (i) Guide bar (iii) Trick plate
 - (ii) Sinker bar (iv) Latch wire
 - (c) Describe in detail various ways to represent warp knitted fabric on paper.
(Draw the Notations)
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