

22357

12425

03 Hours / 70 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) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following : 10
- a) State the principle of knitting with relevant figures.
 - b) Classify the knitting machine ?
 - c) Draw the loop structure of 1×1 interlock structure.
 - d) Define the tightness factor with its formula.
 - f) State the functions of guide bar in warp knitting m/c.
 - g) State the application of warp knitted fabrics.

P.T.O.

2. Attempt any THREE of the following :**12**

- a) Define and draw the following terms.
 - i) Purl stitch
 - ii) Face loop
 - iii) Course
 - iv) Sinker loop
- b) State the functions of following parts –
 - i) Cylinder
 - ii) Cams
 - iii) Needle
 - iv) Fabric spreader
- c) State the concept of machine gauge with relevant example.
- d) Compare the single jersey fabric with double jersey fabric with respect to physical property.

3. Attempt any THREE of the following :**12**

- a) Compare rib machine with single jersey machine.
- b) Describe the passage of yarn through flat knitting machine.
- c) State the concept of principle stitches and list them.
- d) State the concept of needle order with relevant example.
- e) State the concept of cam order with relevant example.

4. Attempt any THREE of the following :**12**

- a) Draw the trick arrangement diagram for 1×1 Rib machine.
- b) State the concept of stripper with relevant example.
- c) Draw the loop diagram of 1 course tuck stitch.
- d) Draw the loop diagram of 1 hole miss stitch.
- e) Draw the symbolic notation of following structure (Any two)
 - i) La-coste
 - ii) Cross tuck
 - iii) Satin
 - iv) Ottoman Rib

5. Attempt any TWO of the following :**12**

- a) Describe the procedure to determine the C.P.I. and W.P.I. of fabric.
- b) Define the warp knitting and draw the loop structure of warp knitted fabrics.
- c) State the functions of following part in warp knitting.
 - i) Pattern wheel
 - ii) Sinker bar
 - iii) Presser bar

6. Attempt any TWO of the following :**12**

- a) Compare between warp and weft knitting.
 - b)
 - i) State the concept of single bar and two bar fabric with relevant example.
 - ii) State the concept of G.S.M. with relevant example.
 - c) Draw and describe the needle punching method of manufacturing the Non Woven fabrics.
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