

22357

11920

3 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
- Yarn which are placed horizontally are known as .....  
and Yarn which are vertically placed are known as .....
  - State the characteristics of single jersey knitted fabric.
  - Classify the weft knit fabrics.
  - Enlist various knitting elements of tricot warp knitting machine.
  - State the applications of non-woven.
  - Define stitch length.
  - Enlist various manufacturing processes of non woven fabric.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Explain the effect of tuck and float stitch on fabric property.
  - b) Differentiate between woven and knitted fabric.
  - c) Explain the latch needle with neat sketch.
  - d) Explain the function of cylinder in weft knitting machine.
- 3. Attempt any THREE of the following:** **12**
- a) Differentiate between single jersey and double jersey weft knit fabric.
  - b) Determine the course length and G.S.M. for following knitted fabric.
    - (i) C.P.I - 40
    - (ii) W.P.I - 30
    - (iii) Yarn count - 30<sup>s</sup> Ne
    - (iv) Stitch length - 3 mm
    - (v) No of loops in a course - 2,200
  - c) Explain tightness factor.
  - d) Explain the function of sinker and presser in warp knitting machine.
- 4. Attempt any THREE of the following:** **12**
- a) Differentiate between warp knitting and weft knitting.
  - b) Classify the nonwoven fabrics in detail.
  - c) State the properties of non-woven fabric.
  - d) Draw neat labeled sketch of tricot knitting machine.
  - e) Explain the pillar stitch with lapping movement diagram.

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

- a) Draw neat labelled sketch showing the passage of yarn through flat knitting machine. Explain it.
- b) Draw the design, cam order, needle order for following:
  - (i) Milano rib
  - (ii) Double pique
  - (iii) Satin
- c) Explain weft knit fabric defects with its causes and remedies.

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

- a) Describe the single jersey weft knitting machine with neat sketch.
  - b) Explain knit, tuck and miss stitch with diagram.
  - c) Define warp knitting. Explain the loop structure of warp knit fabric.
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