

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
- a) Yarn which are placed horizontally are known as
and Yarn which are vertically placed are known as
- b) State the characteristics of single jersey knitted fabric.
- c) Classify the weft knit fabrics.
- d) Enlist various knitting elements of tricot warp knitting machine.
- e) State the applications of non-woven.
- f) Define stitch length.
- g) 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^s 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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