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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) 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.
 - (8) Use of Steam tables, Logarithmic, Mollier's chart is permitted.

Marks

1. Attempt any FIVE of the following:

10

- a) Define fabric cover factor and also give its formula.
- b) State the objectives of carding.
- c) Define - English Count of Yarn
- d) State the objectives of Speed Frame.
- e) Define Denier of yarn.
- f) Define -
 - i) Warp Yarn
 - ii) Weft Yarn
- g) State the objectives of Drawing-In process.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Classify textile Fibres with suitable example.
 - b) Suggest the difficulties in measuring yarn diameter.
 - c) Describe passage of material through sizing machine.
 - d) Draw and label ring frame with its working principle.
- 3. Attempt any THREE of the following:** **12**
- a) Draw design, draft, peg plan and denting order for twill weave.
 - b) Describe with neat sketch passage of material through warping machine.
 - c) Explain in detail primary motions of weaving machine.
 - d) Draw process flow chart for following:
 - i) Wrap or weft stripes.
 - ii) Mono colour fabric.
- 4. Attempt any THREE of the following:** **12**
- a) If 120 yds of cotton yarn weigh's 30 grains then calculate : English count.
 - b) Discuss the methods of fabric production for following:
 - i) Woven
 - ii) Knitted
 - c) Classify yarns in detail.
 - d) State the essential properties of textile fibre.
 - e) Explain in detail Indian cotton cultivation process.
- 5. Attempt any TWO of the following:** **12**
- a) Compare in detail Direct number and Indirect numbering system used for yarns.
 - b) Give process flow chart for manufacturing of combed yarn and also state the objectives of each process.
 - c) Describe with neat sketch passage of material through carding machine.

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

- a) Draw design, draft and peg plan for 5 end sateen on fabric.
 - b) Explain in detail 4 point fabric grading system and also state the criteria for rejection of fabric.
 - c) Justify importance of following process:
 - i) Winding
 - ii) Warping
 - iii) Sizing
 - iv) Weaving in fabric forming.
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