24225 3 Hours / 70 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.
- (7) Use of Non-programmable Electronic Pocket Calculator is permissible.
- (8) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.
- (9) Use of steam tables, logarithmic, Mollier's chart is permitted.

Marks

1. Attempt any FIVE of the following:

10

- (a) State the objectives of silver lap.
- (b) State the objectives of drawing-in.
- (c) Enlist the methods to produce different fabrics.
- (d) State the functions of following ring frame ports:
 - (i) Traveller
 - (ii) Balloon control ring
- (e) Define size pick-up.
- (f) Define cover factor.
- (g) Enlist the types of winding.



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2. Attempt any THREE of the following:

- (a) Classify textile fibre.
- (b) Draw & label the passage of material through warping machine.
- (c) Calculate english count if a lea of cotton yarn weighs 35 grains.
- (d) Give process flow chart for manufacturing cotton grey fabric.

3. Attempt any THREE of the following:

12

12

- (a) Classify the yarn into different categories.
- (b) (i) A cone of 60^s count cotton yarn weighs 1.5 kg. Find out the length of yarn it contains.
 - (ii) A polyester filament yarn package of 120 Denier weighs 2 kg. Find out the length of yarn it contains.
- (c) Give process flow chart for manufacturing combed yarn.
- (d) Make regular warp rib and west rib weave on point paper. Draw draft and pegplan of the same.

4. Attempt any THREE of the following:

12

- (a) Draw and label the passage of material through ring frame.
- (b) Calculate resultant count if one end of 20^s, two ends of 30^s & three ends of 40^s are twisted together.
- (c) Give detailed classification of textile fibers. State essential and desirable properties of the same.
- (d) Draw design, draft & peg plan for 2 up 3 down $\left(\frac{2}{3}\right)$ 'S' twill weave.
- (e) Explain 4 point grading system for fabric inspection.

French count

Worsted count

(iii)

(iv)

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