

22234

21819

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) 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 Textile fiber.
- (b) Suggest the essential properties required for textile fiber.
- (c) State the objects of speed frame.
- (d) Define count.
- (e) State the objects of sizing.
- (f) Give flow process chart for array fabric.
- (g) State the objects of cheese winding.

2. Attempt any THREE of the following :

12

- (a) Give classification of textile fiber.
- (b) Suggest the effect of preginning.
- (c) Differentiate four points between Sliver lap and Ribbon lap in terms of production, end use, feed material and quality of lap.
- (d) Give the application of hosiery yarn.

3. Attempt any THREE of the following : 12

- (a) Define Direct and Indirect Count system.
- (b) Describe the practical difficulties while measuring the yarn diameter.
- (c) Calculate the resultant count of 20^s Ne, $2/24^s$ Ne and 1.3 Denier.
- (d) Classify the various types looms.

4. Attempt any THREE of the following : 12

- (a) Describe with neat sketch passage of material through plain loom.
- (b) Explain the end uses of non-woven fabric.
- (c) Describe with neat sketch passage of material through warping.
- (d) Suggest the formula to calculate fabric cover factor and crimp percentage.
- (e) Give four fabric defects their causes and remedies in terms of missing end, crimp, selvedge and starting marks.

5. Attempt any TWO of the following : 12

- (a) Describe with neat sketch, passage of material through carding.
- (b) State the application of any six yarns.
- (c) Calculate the length of 24^s Ne yarn if the weight of yarn is 92 grams also convert 24^s Ne to Tex and Denier.

6. Attempt any TWO of the following : 12

- (a) Give the application of knitted fabric.
 - (b) Describe with neat sketch Dobby Shedding.
 - (c) Describe with neat table form classimatt chart.
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