

17471

11920

3 Hours / 100 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.

Marks

1. Attempt any FIVE of the following : 20
- a) Define the terms:
- (i) Metric count
 - (ii) English count
 - (iii) French count
 - (iv) Worst count
- b) Explain fabric sampling method with suitable diagram.
- c) Define the terms:
- (i) Warp count
 - (ii) Weft count
 - (iii) Warp cover factor
 - (iv) Waft cover factor

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- d) What are effects of twist on fabric properties?
- e) Explain crease recovery angle principle.
- f) Define Drape and Drape coefficient.
- g) Define the terms:
 - (i) Serviceability
 - (ii) Wear
 - (iii) Pilling
 - (iv) Abrasion

2. Attempt any TWO of the following: 16

- a) Define English count with formula. Calculate English count of cotton yarn weighing 1.9 kgs and 1490000 meter length.
- b) Describe any one method to measure fabric length and fabric weight.
- c) Describe with neat sketch the working of shirley crease recovery tester.

3. Attempt any TWO of the following: 16

- a) Describe standard method of determination of yarn count with electronic balance.
- b) Explain the method to find the warp count and weft count of yarn from the fabric.
- c) State the cantilever principle to measure the stiffness of fabric.

4. Attempt any TWO of the following: 16

- a) Describe the ICI pill box tester with neat sketch.
- b) Explain Hydrostatic water head test with neat sketch.
- c) Explain the construction and working of any one fabric tensile strength tester.

5. Attempt any TWO of the following:**16**

- a) Describe with neat sketch the working of Martindales abrasion tester.
- b) Explain spray test with neat sketch.
- c) Explain single yarn strength tester with working principle and neat sketch.

6. Attempt any TWO of the following:**16**

- a) Explain measurement and bursting strength of fabric with neat sketch.
 - b) Explain the measurement of tearing strength of fabric with neat sketch.
 - c) Define air permeability and describe the working of air permeability tester.
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