

17334

11718

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

Marks

- 1. Attempt any TEN of the following: 20**
- a) Define English count. Give an expression (formula) for the same.
 - b) Define Denier. Give an expression (formula) for the same.
 - c) Define U%
 - d) Define cover factor, give expression for the same.
 - e) Define crimp in warp and weft.
 - f) Define drape.
 - g) State importance of measurement of crease recovery of fabric.
 - h) Define wean and abrasion.

P.T.O.

- i) What is 'pilling'?
- j) Define the 'Waterproof'.
- k) Define 'tenacity'.
- l) Define 'Work of rupture'.
- m) Elaborate the concept of yarn unevenness.
- n) State importance of fabric strength testing.
- o) List down various different fabric strengths are tested and name the instruments used for the same.

2. Attempt any FOUR of the following: 16

- a) (i) Define 'Metric count'.
- (ii) Define 'Tex'
- b) What do you understand by imperfections in the yarn.
- c) Describe different fabric sampling methods.
- d) Explain how measurement of drape is important from the point of view of garment manufacturing.
- e) Describe the working of Martindale Abrasion tester.
- f) Describe spray test. State its importance.

3. Attempt any TWO of the following: 16

- a) Describe the method of determination of count with the help of electronic balance.
- b) (i) Describe at least two methods of measuring thread/unit length in a fabric.
- (ii) Describe method of measurement of crimp in warp and weft.
- c) Describe the method of measurement of air permeability.

- 4. Attempt any TWO of the following: 16**
- a) (i) Describe the method of measurement of twist by twist contraction principle.
 - (ii) Describe effect of twist on properties of yarn and fabric.
 - b) Describe the methods used for determination of
 - (i) Fabric length
 - (ii) Fabric width
 - (iii) Fabric weight
 - c) (i) Explain the method of determination of pilling by ICI pill box tester.
 - (ii) List down various factors responsible for pilling.
- 5. Attempt any TWO of the following: 16**
- a) Explain the method of measurement of crease recovery.
 - b) (i) Describe the effect of yarn unevenness on yarn and fabric properties.
 - (ii) List down various factor affecting air permeability.
 - c) Describe the method of measurement of lea strength by lea strength tester.
- 6. Attempt any TWO of the following: 16**
- a) Describe the measurement of tearing strength of fabric by tearing strength tester.
 - b) Describe the measurement of bursting strength of fabric using bursting strength tester. State the importance of this test.
 - c) (i) Define – elongation and elastic recovery.
 - (ii) Explain the measurement of stiffness of fabric. State its importance.
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