22582

11920

3 Hours / 70 Marks Seat No. | | | | | | | | |

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) Use of Non-programmable Electronic Pocket Calculator is permissible.

(6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any <u>FIVE</u> of the following: **10**

a) Define the E.P.I. and P.P.I.

b) State the importance of drape and state the concept of drape co-efficient.

c) Enlist the types of abrasion.

d) Define the air permeability and air resistance.

e) State the principle of fabric assistance.

f) Draw the figure of tear test sample with all dimensions.

g) State the concept of seam efficiency.

Marks

2. Attempt any THREE of the following: **12**

a) Find the cover factor of fabric by using following data E.P.I.=80, P.P.I.-72, warp count = 40's Ne, weft count = 30's Ne.

b) Describe with sketch the method to measure the drape coefficient.

c) State the various factors responsible to fabric wear.

d) State the principle of wettability with relevant sketches.

3. Attempt any THREE of the following: **12**

a) State the concept of G.S.M. and explain the method to determine the G.S.M. of fabric.

b) Describe the factors affecting the abrasion resistance.

c) Draw the schematic figure of spray testing instrument and Describe its principle.

d) State the principle of rubbing color fastness and washing fastness.

4. Attempt any THREE of the following: **12**

a) (i) State the concept of crimp and crimp%.

(ii) Describe the method to calculate/determine the same.

b) Describe with sketch the method to measure the crease recovery angle.

c) Describe with sketch the principle of Martindale Abrasion resistance tester.

d) State the concept of TIV and describe the method to measure it.

e) Describe the principle of brusting strength tester and explain its working.

Marks

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

a) State the concept of yarn count with relevant examples.

b) (i) Draw the schematic figure of crease recovery tester and label its parts name.

(ii) Arrange following textile fibres from good to poor crease resistance.

(1) Wool

(2) Cotton

(3) Silk

(4) Polyester

c) Describe with sketch the principle of stiffness tester.

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

a) Describe with sketch the stripe strength tester principle.

b) Draw the schematic figure of elmendurf of tear tester and explain its working procedure.

c) Describe with sketch the method to measure the garment and fabric shrinkage.