11920

2 Hours / 50 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) 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 SEVEN of the following :** $7 \times 2 = 14$

(a) Define indices of blending.

(b) Define degree of mixing.

(c) Give relative humidity % and temperature of a carding department for blend spinning.

(d) State the necessity of tinting.

(e) State the importance of false twist in texturising.

(f) State the object of air jet spinning.

(g) List the names of texturing methods.

(h) State the disadvantages of edge crimping method.

(i) Give the end uses of texturised yarn.

(j) State objects of texturising.

2. **Attempt any FOUR of the following:** 4 × 3 = 12

   (a) State the advantages and disadvantages of blending at blow room.

   (b) Differentiate any six points between blow room blending and draw frame blending.

   (c) State the changes to be made at ring frame for P/V blend.

   (d) Give the causes and remedies of any three blended yarn faults.

   (e) State the properties of ring spun blend yarn.

   (f) State the changes to be made at carding for P/C blend.

3. **Attempt any FOUR of the following :** 4 × 3 = 12

   (a) Give the advantages and disadvantages of draw frame blending.

   (b) State the changes to be made at speed frame for P/V blend.

   (c) Define and give the formula of index of blend in-regularity.

   (d) State the precautions to be taken while spinning long staple fibre.

   (e) Differentiate any four points between spun and filament yarn.

   (f) Give the classification of textured yarn.

4. **Attempt any FOUR of the following :** 4 × 3 = 12

   (a) State the factors influencing properties of textured yarn.

   (b) Draw schematic diagram of simultaneous draw texturising machine and label the parts.

   (c) Explain working of air-texturising machine with help of a schematic diagram.

   (d) Differentiate between pin spindle and friction disc texturising method.

   (e) State any three textured yarn defects, causes and remedies.

   (f) Draw and label edge criming method.

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