16172

2 Hours / 50 Marks　　Seat No. ☐☐☐☐☐☐☐☐

Instructions :　(1) Answer *each* next main question on a *new* page.
　　　　　　　　(2) Illustrate your answers with neat sketches *wherever* necessary.
　　　　　　　　(3) Figures to the *right* indicate *full* marks.
　　　　　　　　(4) Assume suitable data, if *necessary*.
　　　　　　　　(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 seven** of the following :　　　　　　　　**(7×2=14)**

   a) Why blending is necessary ?

   b) State objects of blending.

   c) Write the objects of draw frame blending.

   d) Define degree of mixing.

   e) State objects of Texturising.

    f) Define modified stretch yarn.

   g) State any four end uses of textured yarn.

   h) What is false twist ? Where it is used ?

    i) State objects of draw texturising.

    j) State the end uses of edge crimped yarn.

2. Attempt **any three** of the following :　　　　　　　　**(3×4=12)**

   a) Differentiate between draw frame blending and blow room blending.

   b) State advantages and disadvantages of drawframe blending.

   c) Explain the causes and remedies of blended yarn faults.

   d) Write the changes required to process polyester/viscose blend on cotton spinning machines.

   e) State properties of ring spun blended yarn.

    f) Explain effect of relative humidity and temperature on blend spinning at blow-room.

P.T.O.

Marks

3. Attempt **any three** of the following : (3×4=12)

   a) State the precautions taken while spinning long staple fibre.

   b) State the properties of Polyester/Cotton blened yarn.

   c) State the advantages and disadvantages of Blow-room blending.

   d) Define "Index of blend ir-regularity".

   e) With neat sketch describe Air-jet texturising.

   f) With neat sketch describe stuffer box crimping.

4. Attempt **any three** of the following : (3×4=12)

   a) State the defects and causes of texturised yarn.

   b) Differentiate between gear crimping and edge crimping.

   c) Draw a label of false twist texturising.

   d) Explain effect of processing parameters on properties of Airjet Dentured Yarn.

   e) Write the classification of texturising methods.

   f) State the application of Airjet texturised yarn.

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