22234

21718

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) Assume suitable data, if necessary.

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

Marks

1. Solve any FIVE : **10**

(a) Define elongation. Give example.

(b) State the meaning of open-end yarn.

(c) Define 'Denier' & give its formula.

(d) Define warp & weft.

(e) Define the terms EPI & PPI.

(f) Define 'defect'. State any two defects in fabrics.

(g) Enlist the types of winding.

2. Write notes on any THREE : **12**

(a) Objectives of ginning

(b) Carding objectives

(c) Yarn count

(d) Classification of looms

3. Solve any THREE : **12**

(a) Describe the various types of cones used for winding.

(b) Write in brief about the process of 'Drawing-in'.

(c) Write in one sentence each, any four essential properties of textile fibres.

(d) State the purpose of blow room in brief.

4. Solve any THREE : **12**

(a) State the significance of linear density in yarn numbering.

(b) Explain in brief the process of weaving.

(c) Explain the process of 'shedding' & state its objectives.

(d) Give a brief account on the double yarn.

(e) State the uses of speed frame & ring frame.

5. Solve any TWO : **12**

(a) Explain in brief the effect of yarn maturity, hairiness & evenness on the spinning process.

(b) Convert 30^s Ne count to equivalent Tex & Denier.

(c) Show the flow chart for a patterned fabric, with warp or weft coloured.

6. Solve any TWO : **12**

(a) Explain in detail the classification of non-woven fabrics. Give examples of each.

(b) Describe the process of warping in detail. State the different types of warping.

(c) Define 'sizing'. Describe the process in detail & state its importance.
