22246

23124

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) 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.

Marks

1. Attempt any FIVE of the following : **10**

(a) Define warp and weft.

(b) Define yarn numbering system. List down various yarn numbering systems.

(c) State the objects of winding process.

(d) List down the different parts of winding machine.

(e) List down different types of tensioner.

(f) List down different types of Knots used for joining yarn.

(g) Define objectionable faults.

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

(a) Select the process sequence for Denim fabric.

(b) Calculate Tex number of yarn having 16000 yard length and one pound weight.

(c) Explain any two faults in ring spun yarn.

(d) Distinguish between spindle and drum driven winding machine.

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

(a) Illustrate with neat sketch gate type tensioner.

(b) Calculate production in kg per shift per spindle of winding machine having 900 mpm speed working with 88% efficiency for 60 Ne yarn.

(c) Classify various looms.

(d) Calculate French count of yarn weighing 900 grams of 120000 meter length.

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

(a) State the end uses of the winding package.

(b) State the function of unwinding accelerator in winding machine.

(c) Give uster classimat chart-V.

(d) State the salient features of precision winding machine.

(e) Define metric and linen yarn number with expression.

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

(a) Describe the passage of yarn through Drum winding machine with neat labelled diagram.

(b) Distinguish between mechanical and electronic yarn cleaner.

(c) Define traverse ratio, winding angle and coil angle.

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

(a) Convert 100 Ne (English count) into Tex, Denier and Metric yarn number.

(b) Draw outline sketch of different feed yarn package and delivery packages of winding machine.

(c) Calculate number of winding machines of 60 spindles required in industry per day to produce 6000 kgs of 20 Ne yarn at 85% efficiency working with 800 mpm delivery speed.
