17690

11819

3 Hours / 100 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. Answer any FIVE of the following : **20**

(a) State the importance of yarn realization.

(b) State the characteristic of key variable.

(c) Give the formula of FQI and CQI.

(d) State the function of gravity traps and grid used in blow room.

(e) Define transfer efficiency of card. State the factors affecting transfer efficiency.

(f) Differentiate any four points between ribbon lap and sliver lap.

(g) Describe the principle of roller drafting.

2. Attempt any TWO of the following : **16**

(a) State and draw graphical method to control mixing quality and cost.

(b) Define machinery audit. State the importance of machinery audit.

(c) Describe AFIS nep tester with neat sketch.

3. Attempt any TWO of the following : **16**

(a) Explain in detail about "Stock taking adjustment procedure".

(b) State the causes and remedies of lap irregularity and quality of laps.

(c) Define fractionating efficiency of comber. State the factors affecting on fractionating efficiency.

4. Attempt any TWO of the following : **16**

(a) State the effect of relative humidity and temperature on speed frame performance and process waste.

(b) State any eight causes and remedies of end breakages in ring frame.

(c) Explain with classification chart of a Classimat-II yarn faults.

5. Attempt any TWO of the following : **16**

(a) State the causes and remedies of neps in carding.

(b) State any four (each) control of within and between count variation.

(c) Describe the method of estimating the productivity of a mill.

6. Attempt any TWO of the following : **16**

(a) State any four package faults in winding, also state causes and remedies of above package faults.

(b) Explain the principle of linear programming technique.

(c) Give blow room department norms for waste and cleaning efficiency for any four cotton mixing.
