

22461

23242

3 Hours / 70 Marks

Seat No.

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- 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) State the necessity of condensers
 - b) State the function of solid leg used in flyer.
 - c) State the necessity of breakdraft in roving frame.
 - d) State the object of balloon control ring.
 - e) State the object of compact spinning
 - f) State the effect of worn out rings on quality of yarn.
 - g) Define:
 - i) Slub
 - ii) Cork screw yarn.

P.T.O.

- 2. Attempt any THREE of the following. 12**
- a) Describe with neat sketch the function of flyer at roving frame.
 - b) State the object of litter motion of roving frame and its effect on rove quality.
 - c) List the difficulties of automation in roving frame.
 - d) Describe with neat sketch, passage of material through compact spinning.
- 3. Attempt any THREE of the following. 12**
- a) State the necessity of creel and its effect on quality of rove.
 - b) Explain the importance of sliver and rove stop motion used in roving frame.
 - c) Calculate the time required to exhaust 10 kg sliver can of 0.12 hank of sliver from the following particulars:
 - i) F. R. diameter - 1.5 inch
 - ii) B. R. diameter - 1 inch
 - iii) B. R. roller speed - 100 rpm.
 - iv) Draft - 12
 - d) Describe with neat sketch bolster of ring frame.
- 4. Attempt any THREE of the following. 12**
- a) Describe with neat sketch conventional and modern cone drums used in roving frame.
 - b) Describe with neat sketch lappet gauging.
 - c) Describe with neat sketch antiwedge ring also state its application.
 - d) Give the table of traveller nos and traveller weight.
 - e) State any four difference between single side and double side rings.

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

- a) Describe with neat sketch types of builds.
- b) Give the table of classimatt-II yarn faults.
- c) Calculate the production of ring frame in kgs/shift of 7.5 hrs from the following particulars:
 - i) Spindle speed - 18000
 - ii) T.M. - 4.1
 - iii) Count - 24
 - iv) Efficiency - 86%
 - v) Number of spindles/frame -1008.

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

- a) State the effect of drafting arrangement on quality of ring yarn.
 - b) State any twelve modern features of ring frame.
 - c) Explain monitoring system in ring frame.
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