

22676

12425

03 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) 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 Fibre Quality Index (FQI).
- b) List fibre parameters tested in HVI.
- c) Define Nep Count.
- d) State norms for rotor yarn U % for good quality.
- e) Define key variable.
- f) State the application of Productivity Index.
- g) State the function of spectrogram.

P.T.O.

- 2. Attempt any THREE of the following: 12**
- a) Explain the causes of idle spindles in rotor spinning. Also give the remedies.
 - b) Describe the steps to control lea count variations and yarn U % in rotor spinning.
 - c) Explain causes and remedies for nep generation in carding.
 - d) Discuss the mean to improve productivity in spinning.
- 3. Attempt any THREE of the following: 12**
- a) State the causes and remedies of blow room lap rejection.
 - b) Explain the application of linear programming in controlling cost and quality of mixing.
 - c) Describe with neat sketch AFIs nep tester.
 - d) Explain why sliver uniformity can precisely be controlled only at draw frames and not at any other machines.
- 4. Attempt any THREE of the following: 12**
- a) Differentiate between within and between bobbin count variation in ringframe.
 - b) Explain the factors affecting ring spun yarn strength.
 - c) State the factors affecting fractionating efficiency of camber.
 - d) Explain remedial steps to control cleaning efficiency at blowroom. State the norms for cleaning efficiency at blowroom.
 - e) List two main types of waste and describe measures to control them at card.

5. Attempt any TWO of the following: 12

- a) Explain determination of trash content and cleaning efficiency at carding machine.
- b) State the causes and remedies of endbreakages in rotor spinning.
- c) Define indices of productivity and means for increasing machine productivity in preparatory section.

6. Attempt any TWO of the following: 12

- a) Define machinery Audit. State the importance of machinery audit.
 - b) Define energy conservation. Give the energy conservation in spinning department.
 - c) State causes of high variation in yarn strength. Explain measures to control it.
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