

312306

12526

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 answer 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 textile fibres and staple fibres.
- b) State the objectives of Ginning. List down various types of ginning machine.
- c) State the objectives of Blow room.
- d) Define cleaning efficiency with formulae.
- e) State the importance of cleaning and opening in the blow room.
- f) Differentiate between conventional and automatic bale openers.
- g) State the function of metal detector in blowroom.

P.T.O.

- 2. Attempt any THREE of the following: 12**
- a) Differentiate between hand picking and machine picking.
 - b) Classify the textile fibres with examples. (Tree diagram)
 - c) Explain various essential properties of textile fibres.
 - d) Draw the flowchart for conversion of corded and combed yarn with the input and output product of each process.
- 3. Attempt any THREE of the following: 12**
- a) State the importance of cotton pressing and baling. Also suggest various bale dimensions and density for different variety of cottons.
 - b) State the objectives of carding and draw frame.
 - c) Draw neat labelled sketch of saw ginning machine.
 - d) Explain various opening devices used in the blow room with neat sketch.
- 4. Attempt any THREE of the following: 12**
- a) State the importance of Grid and mote knives.
 - b) Explain the factors influencing opening and cleaning.
 - c) Explain step cleaner with neat sketch.
 - d) Differentiate between manual mixing and automatic mixing.
 - e) Explain lap formation unit with neat sketch.
- 5. Attempt any TWO of the following: 12**
- a) Describe the construction and working of E.R.M. cleaner with neat sketch.
 - b) Explain various feeding apparatus used in the blow room with neat sketch.
 - c) Describe Hopper bale breaker with neat sketch.

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Marks

6. Attempt any TWO of the following:

12

- a) Describe Kirschner beater with neat sketch.
 - b) Explain modern chute feed system with its advantages.
 - c) A scutcher providing 1200 kgs. per shift of 8 hrs. and working at 88% efficiency delivers a lap of 0.00125 hank. If the calender roller has 7" diameter and the draft between lap roller and calender roller is 1.07, find the revolutions per minute of calender roller.
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