

22245

11920

3 Hours / 70 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data, if necessary.
- (5) Use of Non-programmable Electronic Pocket Calculator is permissible.
- (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

- List the different desirable property of textile fibres.
- State the objects of picking.
- State the objects of ginning.
- Give the flow process chart for combed yarn production.
- Define cleaning efficiency of blow room with formulae.
- State the function of calendaring roller in scutcher.
- Give the sequence of machine in modern Blow - Room.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) State the function of automatic bale opener.
 - b) Write the effect of fibre conditioning on cotton material in spinning.
 - c) Write down the advantage and disadvantage of mechanical cotton picking.
 - d) Draw schematic diagram of Hopper bale breaker and label the parts.
- 3. Attempt any THREE of the following:** **12**
- a) Draw schematic diagram of step cleaner and label the parts.
 - b) Describe the factors affecting opening and cleaning.
 - c) Describe pneumatic transport method of fibre in blow-room.
 - d) Compare manual and automatic mixing.
- 4. Attempt any THREE of the following:** **12**
- a) Describe the working of mono-cylinder cleaner with neat diagram.
 - b) Explain with neat sketch lap building mechanism.
 - c) Draw schematic diagram of ERM cleaner and label the parts.
 - d) Describe the method for waste disposal in blow room.
 - e) State the function and working of swing door in Bale opener.

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

- a) Give the classification of textile fibre.
- b) Explain the working of double roller gin with neat sketch.
- c) Compare carded and combed yarn.

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

- a) Describe working of cleanomat cleaner with neat sketch.
- b) Explain different types of opening devices and give their classification. (Explain any three devices)
- c) Find the Blow - Room production per shift of 8 hours in Kilograms-

lap roller speed = 10 rpm

lap roll dia = 9 inch

The hank of lap = 0.00136

Efficiency = 80%
