

17224

11819

3 Hours / 100 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) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. **Attempt any TEN of the following :** **20**
- State objectives of ginning.
 - State objectives of blowroom.
 - Recite the importance of length of fibre in spinning.
 - State the function of grid bars in blowroom machineries.
 - Enlist various machineries in the blowroom line (any four)
 - What do you mean by scutcher? Explain.
 - What is baling?
 - Explain slenderness ratio.
 - What do you mean by neps? Explain.
 - Explain need of conditioning of cotton.
 - Enlist desirable properties of textile fibres.
 - Define cleaning efficiency with formulae.
 - Recite the effect of ginning on fibre properties.
 - State functions of metal extractor.
 - Discuss about recycling of raw material.

P.T.O.

- 2. Attempt any TWO of the following: 16**
- a) Explain essential properties of textile fibre. Explain how these properties influence spinning performance.
 - b) Describe the working of Uniflex with the help of a neat diagram.
 - c) Describe automatic bale opener with neat sketch.
- 3. Attempt any TWO of the following: 16**
- a) Explain unimix with its advantages and disadvantages.
 - b) Explain general factors influencing opening and cleaning.
 - c) Explain picking of cotton. Also differentiate between mechanical and hand picking.
- 4. Attempt any TWO of the following: 16**
- a) Write a note on transport of material in details.
 - b) Explain blendomat with its advantages and disadvantages.
 - c) Explain describe properties of textile fibres.
- 5. Attempt any TWO of the following: 16**
- a) What is the dust removal system? Explain any one dust removal system.
 - b) Explain various methods of cotton mixing.
 - c) What are various components of blowroom. Explain any two of them.
- 6. Attempt any TWO of the following: 16**
- a) Describe construction and working of double roller gin.
 - b) Explain operation of grid. Also explain grid elements and grid adjustment.
 - c) Explain working of scutcher with neat sketch.
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