

17224

16172

3 Hours / 100 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 TEN of the following:** **20**
- State objects of ginning.
 - Enlist various characteristics of fibers.
 - What do you mean by ‘scutcher’. Explain.
 - Define cleaning efficiency of blow room with formulae.
 - State the objective of baling and pressing.
 - State the importance of fibre length in spinning.
 - Give the importance of fibre fineness in spinning.
 - Define the “nep”?
 - Explain the role of grid bars in the blow room machineries.
 - Write the important steps in cultivation of cotton fibre.

P.T.O.

- k) Define maturity ratio.
- l) State objectives of blow room.
- m) Define “Fibre elongation”.

2. Attempt any TWO of the following: 16

- a) Describe construction and working of double roller gin with neat sketch.
- b) Describe the construction and working of Hopper bale breaker with neat sketch.
- c) Explain essential properties of textile. Also explain their importance in spinning.

3. Attempt any TWO of the following: 16

- a) Describe the construction and working of Maxiflow cleaner with neat sketch.
- b) Explain factors influencing opening and cleaning in blow room.
- c) Explain various methods of picking of cotton with their comparison.

4. Attempt any TWO of the following: 16

- a) Explain construction and working of CVT cleaner with neat sketch.
- b) Explain Role of following accessories and equipments in blow room:
 - (i) Metal extractor
 - (ii) Fire eliminators
- c) Explain various methods mixing and conditioning the cotton and describe any one.

5. Attempt any TWO of the following:**16**

- a) Describe the construction and working of Uninix.
- b) Explain various opening devices used in blow room machineries.
- c) Explain desirable properties and its importance in spinning.

6. Attempt any TWO of the following:**16**

- a) State the concept of dust removal in Blow room and describe the working of Rieter dust extractor.
 - b) Explain card feeding systems.
 - c) Explain blendomat in details.
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