

17224

16117

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 answers with neat sketches wherever necessary.
(4) Figures to the right indicate full marks.
(5) Assume suitable data, if necessary.
(6) Use of Non-programmable Electronic Pocket Calculator is permissible.
(7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. **Attempt any TEN of the following:** **20**
- a) Define slenderness Ratio. State it's Importance.
 - b) Define dust and give it's classification.
 - c) State necessity of pre-ginning.
 - d) Define opening.
 - e) Enlist object's of Blow-room.
 - f) Define blending.
 - g) State function's of metal extractor.
 - h) State the necessity of baling and pressing.
 - i) Enlist various properties of raw material in spinning.
 - j) Define elongation. State it's importance.

P.T.O.

- k) Explain “Stack Mixing”.
- l) State function of “Doctor knife” in Ginning machine.
- m) Give classification of opening devices.
- n) Discuss about “Recycling of raw material”.
- o) State different types of “Grid”.

2. Attempt any FOUR of the following: 16

- a) State importance of fibre fineness in spinning.
- b) Discuss effects of ginning on fibre properties.
- c) Draw and label maxiflow cleaner.
- d) Write the effect of fibre maturity on quality of yarn.
- e) State the importance of fibre cleanness.
- f) Draw and label card feeding “Chute Feed system”.

3. Attempt any FOUR of the following: 16

- a) Define cleaning degree, cleaning efficiency and fibre stressing index.
- b) Write significance (Importance) of fibre length in spinning.
- c) Describe in brief cultivation of cotton in India.
- d) Describe different types of feed apparatus.
- e) Draw and label Mixing Bale Opener (M.B.O.).
- f) Write the effect of dust on human health.

4. Attempt any TWO of the following: 16

- a) Explain general factors influencing opening and cleaning in Blow-room.
- b) Describe with neat sketch and Label-construction and working of double roller Gin.
- c) Describe fine cleaner “cleanomat CVT-I cleaner” with a neat sketch.

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

- a) Explain different types of picking of cotton with their comparison.
- b) Explain different types of opening devices and their classification. (Explain any three devices).
- c) Describe with neat sketch, working of multimixer machine.

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

- a) Explain the various elements that can be used in the grid. Also describe grid adjustment.
 - b) Explain the basics of dust removal in Blow-rom. Describe working of Rieter dust extractor with help of diagram.
 - c) Describe five-zones of machines in machines forming an installation. Also write examples of each zone with their objects.
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