

# 17224

**21718**

**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 FIVE of the following: **20****
- a) Explain how fineness of fibre fineness influence various quality parameters of yarn.
  - b) Explain when picking of cotton is done and explain the different methods of picking.
  - c) Explain the need of baling and pressing of cotton.
  - d) Describe objectives of blow room.
  - e) Explain the recycling of raw material in blow room.
  - f) Why bailing of cotton is done? State the different bale size and density of any two varieties of cotton.
  - g) Explain importance of cotton mixing. Explain conventional method of cotton mixing.
  - h) State various factors influencing opening and cleaning.

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- 2. Attempt any TWO of the following: 16**
- a) Explain how length of fibre and strength of fibre influence various quality parameters of yarn.
  - b) Write a detailed note on cultivational of cotton in India.
  - c) Explain Hopper bale breaker with neat sketch.
- 3. Attempt any TWO of the following: 16**
- a) Explain any four properties of textile fibres in details.
  - b) Elaborate objectives of ginning. Explain working of double roller with the help of a neat diagram.
  - c) What is the function of grid? Explain various elements that can be used in grid with diagram. Explain grid adjustment and how it affects percentage of trash collected at an opening device.
- 4. Attempt any TWO of the following: 16**
- a) (i) List down various essential and desirable properties of textile fibre.  
(ii) Describe effect of ginning on properties of fibres.
  - b) With the help of a neat diagram, explain working of cleanomat cleaner.
  - c) List down five different zones of a modern blow room machinery. Give an example of each type.
- 5. Attempt any TWO of the following: 16**
- a) With the help of a neat diagram explain the working of multi-mixer.
  - b) Explain the working of automatic bale opening machine with help of a neat diagram.
  - c) Explain working of ERM cleaner with the help of a neat diagram.

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

- a) Explain working of scutcher with the help of a neat diagram.
  - b) Explain different types of metal extractors used in blow-room.
  - c) Explain the basics of dust removal in blow room. Explain working of Richter dust extractor with the help of diagram.
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