



17224

14115

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** : 20
- a) Explain in brief how fineness of fibre influences various quality parameters of yarn.
 - b) Draw diagram of cross sections of mature, half mature and immature (dead) fibre of cotton. Explain in brief how maturity of fibre influence properties of yarn.
 - c) Write a short note on cultivation of cotton in India.
 - d) Compare mechanical picking with hand picking.
 - e) Explain stack mixing.
 - f) Describe various objectives of blow-room.
 - g) List down the factors influencing opening and cleaning.
 - h) State the importance of metal extractor. State its limitation.
2. Attempt **any two** : 16
- a) State in brief how fibre strength and fibre length influence yarn quality.
 - b) Describe in detail how fibre slenderness ratio and fibre cleanness affect yarn quality.
 - c) Describe with the help of a diagram working of a double roller gin.

P.T.O.

**MARKS**

3. Attempt **any two** : **16**
- a) Write a detailed note on baling and pressing of cotton.
 - b) Classify feed apparatus into different categories. Explain working of any two of them with the help of a neat diagram.
 - c) Describe construction of grid. State its function. Draw diagrams of various elements of grid. How grid is adjusted to control waste % extraction ?
4. Attempt **any two** : **16**
- a) List down 5 different zones (types) of a modern blow room machinery. Give an example of each type.
 - b) Describe the working of automatic bale opening machine with the help of a diagram.
 - c) Describe working of step cleaner with the help of a neat diagram.
5. Attempt **any two** : **16**
- a) Describe working of unimix with the help of a neat diagram.
 - b) Draw diagram of cleanomat cleaner and explain its working.
 - c) Explain working of ERM cleaner with the help of a neat diagram.
6. Attempt **any two** : **16**
- a) Draw diagram of scutcher and label the parts. State function of each part.
 - b) Give detailed account of control of material flow in a modern blow-room line.
 - c) Describe the working of electronic extractor used in blow room line. State its importance.
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