

22245

23124

3 Hours / 70 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 :

10

- (a) Define textile fiber.
- (b) List any four cotton varieties with names.
- (c) State the necessity of combed yarn.
- (d) State the application of hosiery yarn.
- (e) Define opening.
- (f) State the function of cages.
- (g) State the merits of pneumatic cotton material transport.

2. Attempt any THREE of the following :

12

- (a) State the importance of cotton raw material conditioning.
- (b) Differentiate between hand picking and machine picking (any four points).
- (c) Draw and label grid bars.
- (d) List the factors influencing opening.



- 3. Attempt any THREE of the following :** **12**
- (a) Draw and label conventional bale opener.
 - (b) Describe with neat sketch passage of material through step cleaner.
 - (c) Explain the application of dedusting machine.
 - (d) State the merits and demerits of feed regulation by electronic feed commander.
- 4. Attempt any THREE of the following :** **12**
- (a) Describe with neat sketch ERM cleaner.
 - (b) Suggest the application of automatic cotton mixing machine.
 - (c) Describe with neat sketch, Axiflow cleaner.
 - (d) Suggest the effect of coarse cleaner and fine cleaner on fibre properties.
 - (e) Describe with neat sketch automatic bale opener.
- 5. Attempt any TWO of the following :** **12**
- (a) State the essential and desirable properties of manmade fiber.
 - (b) Explain different faults in ginning with their causes and remedies.
 - (c) Prepare the process chart for combed yarn and state the objectives of each process.
- 6. Attempt any TWO of the following :** **12**
- (a) Describe with neat sketch any four opening devices.
 - (b) Describe with neat sketch unimixer.
 - (c) Calculate the production of a Scutcher in kgs/shift of 7.5 hrs from the following particulars :
 - (i) Lap roller dia – 12 inch
 - (ii) Lap roller speed – 14 rpm
 - (iii) Weight of lap – 488 gms/mt
 - (iv) Efficiency - 88%
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