

22243

12425

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) Give the dimensions of cotton bale.
- (b) Explain objects of ginning process.
- (c) Define yarn number.
- (d) Define denier with expression.
- (e) Explain objects of winding process.
- (f) List various elements of fabric.
- (g) Draw interlacement for plain weave.



- 2. Attempt any THREE of the following : 12**
- (a) Give classification for textile fibre.
 - (b) Give classification for yarn.
 - (c) Calculate english yarn number if a cotton yarn lea weight is 1.72 grams.
 - (d) Explain process flow chart for grey fabric.
- 3. Attempt any THREE of the following : 12**
- (a) Give classification of the loom.
 - (b) Draw and label any four yarn packages used in weaving industry.
 - (c) Develop draft, peg plan and design for plain weave.
 - (d) Develop draft, peg plan and design for twill weave with eight ends and picks.
- 4. Attempt any THREE of the following : 12**
- (a) Explain objectives of baling and pressing.
 - (b) Draw neat labelled diagram for passage of material through draw frame.
 - (c) Give objects of blow-room and carding process.
 - (d) Compare direct and indirect yarn numbering system.
 - (e) Explain passage of material through sizing machine with neat labelled diagram.
- 5. Attempt any TWO of the following : 12**
- (a) Explain process flow chart for carded yarn in spinning.
 - (b) Explain ring yarn manufacturing process with neat labelled diagram.
 - (c) Develop design for 8 end satin weave with 3 and 5 move number.

6. Attempt any TWO of the following :**12**

- (a) Calculate tex and metric yarn number for yarn package contains 1,00,000 meter length and 1800 grams weight.
 - (b) Explain any three methods to produce fabric.
 - (c) Explain objectives of primary, secondary and auxiliary motions of woven fabric manufacturing.
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