

22234

22232

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 Fibre.
- (b) Define Resultant count.
- (c) Define Warp and Weft.
- (d) Define Crimp Percentage.
- (e) Define Breaking Strength.
- (f) Define French and Linen count.
- (g) Enlist essential and desirable properties of textile fibre.

2. Attempt any THREE of the following :

12

- (a) Explain process flowchart for carded yarn.
- (b) Explain objects of Blowroom and Carding.
- (c) Explain classification of Looms.
- (d) Explain object of shedding and give classification with example.



- 3. Attempt any THREE of the following : 12**
- (a) Describe passage of material through warping machine.
 - (b) Calculate English count of yarn weighing 1200 grams and 40644 meter length.
 - (c) Give classification of Textile Fibres.
 - (d) Draw neat labeled diagram for passage of material through draw frame machine.
- 4. Attempt any THREE of the following : 12**
- (a) Explain objects of comber preparatory and comber.
 - (b) Calculate metric and worsted count of 150 Denier yarn.
 - (c) Explain process flow chart for Mono colour fabric.
 - (d) Draw diagram for passage of material through sizing machine.
 - (e) Explain Non-woven fabric manufacturing process.
- 5. Attempt any TWO of the following : 12**
- (a) Calculate GMS of Fabric with following particulars :
EPI = 40, PPI = 40, Warp Count = 60 Ne, Weft Ne = 64, Warp Crimp and Weft Crimp = 5%.
 - (b) Calculate Resultant count of threeply yarn formed by doubling 20 Ne, 24 Tex and 132 Denier.
 - (c) Describe picking mechanism with neat sketch.
- 6. Attempt any TWO of the following : 12**
- (a) Describe passage of material through Ring Frame with neat sketch.
 - (b) Describe different Fabric manufacturing techniques.
 - (c) Explain objects of primary, secondary and auxiliary motions of woven fabric manufacturing and give example of each motion.
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