

22243

21819

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.

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| 1. Attempt any FIVE of the following : | 10 |
| (a) Define yarn breaking strength. | |
| (b) Define Textile fibre. | |
| (c) Define Resultant count. | |
| (d) Define warp and weft. | |
| (e) Define GSM, give formula for fabric GSM. | |
| (f) Draw design, peg plan and draft for plain weave. | |
| (g) Define crimp and crimp percentage. | |
| 2. Attempt any THREE of the following : | 12 |
| (a) Explain objects of pre-ginning and ginning process. | |
| (b) Explain objects of Blow-room and Carding. | |
| (c) Explain objects of winding and warping process. | |
| (d) Explain manufacturing process of needle punch non-woven fabric with help of a neat diagram. | |

- 3. Attempt any THREE of the following : 12**
- (a) Explain objects of Baling and Pressing.
 - (b) Explain process flow chart for manufacturing combed yarn.
 - (c) Explain process flow chart for manufacturing denim fabric.
 - (d) Explain passage of material through sizing machine with neat diagram.
- 4. Attempt any THREE of the following : 12**
- (a) Calculate Tex and Worsted yarn number if 120 yards yarn weighs 2.24 grams.
 - (b) Develop design, draft and pegplan for sateen weave on 8 ends and 8 picks with two different move numbers.
 - (c) Define cloth cover and give formulae for warp cover factor, weft cover factor and cloth cover factor.
 - (d) Give classification of looms.
 - (e) Give classification of Textile fibre with examples.
- 5. Attempt any TWO of the following : 12**
- (a) Explain objects of primary, secondary and auxiliary motions of woven fabric manufacturing also list them.
 - (b) Develop design, draft and peg plan for satin and 2/1 'S' twill weave.
 - (c) Describe passage of material through Ring frame machine with the help of a neat diagram.
- 6. Attempt any TWO of the following : 12**
- (a) Calculate yarn number in English and Denier count if 1,50,000 meters of yarns weighs 1.845 kgs.
 - (b) Describe passage of material through sliver lap machine with neat labelled diagram.
 - (c) Calculate length of yarn in yards and meters if a cone of 80^s English count weighs 5.4 pound. Also convert 80^s Ne into Tex and Denier.
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