

Jushar Bansal

**MINOR- I**

**TXL 372 : Speciality Yarns and Fabrics**

**Part B : Fabrics**

**Max. Marks : 25**

**Answer Q 1 to Q 4 with max. up to 5 sentences each - Each question carries 2.5 marks.**

1. What is critical strength of warp yarn and why it is important in weaving ?
2. What do you mean by zero defect in weaving ?
3. What are four main limitations of 2D woven fabric ?
4. What are specialties of 3D woven interlock structures ?

**Explain Q 5 to Q 7 with diagram, wherever necessary- Each question carries 5 marks.**

5. What is a profiled 3D structure ? What are advantages and applications of these structures ?
6. What is the fundamental difference between interlaced and non-interlaced 3D weaving ?
7. What are various possible structural variations in 3D solid structures and why do we vary weave design in 3D weaving ?