

Major Test

TXL752

22.11.2022, 11:00 AM-1:00 PM

LHC- 418

MM:40

**Note: Answer all questions in sequence. Failure to do so will lead to deduction of marks**

**Q1. Describe in detail (4x4)**

- a) Steps required for developing a Bullet proof vest for women soldiers in the Indian army. Give justification for each step and the process to be adopted in each case.
- b) Steps required for developing a swimsuit that enhances the performance of a swimmer. (Consider, fibre, fabric, seams, patterns etc. )
- c) Steps used to analyse the anthropometric data for arriving at a garment sizing chart.
- d) The different types of materials used for impact protection in garments. What strategy is used to select the material for a particular application?

**Q2. Answer in brief (3x4)**

- a) Draw a basic bodice block complete with all markings.
- b) Describe the evolution that has taken place in tools for collection of anthropometric data. Discuss the impact of the same on the garment manufacturing industry.
- c) What is the role of kinematic analysis in design of functional clothing? Describe with the help of an example. (steps, phase analysis, technique and application)
- d) What are the various ways in which ease for movement can be built into functional clothing? Explain with the help of an example ( fabric, pattern)

**Q3. Differentiate between and give examples of the following (2x6)**

- a) Welding and bonding for assembling of garments
- b) Stitch and seam
- c) 2D and 3D pattern making for functional garments
- d) Fit and ease in garments
- e) Warp knits and weft knit fabrics
- f) Coating and membrane