



**(OR)**

- b) Discuss in detail about the fiber properties, yarn structure and fabric design with respect to seam strength and seam slippage

23. a) Explain in detail about any two methods used for measuring the dimensional stability in woven and knitted fabrics

**(OR)**

- b) (i) Write short notes on i). Hygral expansion ii). Relaxation shrinkage (12)  
iii). Swelling shrinkage iv). Felt shrinkage  
(ii) What is tailorability (2)

24. a) Enumerate briefly about the objective evaluation of fabric hand by using FAST instruments.

**(OR)**

- b) Explain the effects of fiber properties, yarn structure, fabric construction and finishing treatments on the air permeability and breathability of fabrics. .

25. a) What are the effects of fiber properties, yarn structure and fabric construction on the wicking and moisture transfer of fabrics.

**(OR)**

- b) (i) What are the effects of fiber properties, yarn structure and fabric construction on the Thermal conductivity and warmth of fabrics . (7)  
(ii) Explain the methods of measuring the thermal insulation of fabrics (7)

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