

**G 6042**

M.Tech. DEGREE EXAMINATION, MAY/JUNE 2007.

*Elective*

Apparel Technology and Management

AT 1673 — TECHNICAL TEXTILES

(Common to TT 1632 – Technical Textiles for M.Tech. Textile Technology)

(Regulation 2005)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

Classify Industrial Textiles according to end use.

Outline the application of High Strength and High Modulus organic fibres in the production of industrial textiles.

Mention the suitable stabilisers used during the production of Nylon tyre cord.

State the types of hoses used in Automotive industry.

Mention few fibres used in cigarette filters.

Write a brief note on "Liquid-Solid Filtration".

List out important properties of geo-synthetics.

Outline the requirements of paper machine clothing.

What do you mean by Ballistic Protection?

What type of textile materials are used in medical field?

**PART B — (5 × 16 = 80 marks)**

11. (a) (i) Critically forecast the future of industrial textiles with reference to Indian Textile Industry. (10)
- (ii) Write about different yarns used in the production of industrial textiles. (6)

Or

- (b) Briefly explain the "Finishing" imparted to the medical textiles.
12. (a) Write a detailed note on production of tyre cords.

Or

- (b) Write short notes on :
- (i) Production of conveyor belts. (8)
- (ii) Production requirements of hoses. (8)

13. (a) Give a detailed note on application of textiles in filtration.

Or

- (b) Elaborate on testing of filtration textiles.
14. (a) Explain in detail how various chemical protective clothing are manufactured.

Or

- (b) Critically analyse the applications of textiles in transportation industry.
15. (a) Give a detailed note on production and testing of medical textiles.

Or

- (b) Write about
- (i) Sports clothing. (8)
- (ii) Defence textiles. (8)