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**T 3484**

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2008.

Sixth Semester

Textile Technology

TT 1005 — TECHNICAL TEXTILES

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are Technical Textile?
2. Enlist the applications of technical textiles.
3. What are the general properties required for technical textile?
4. Mention the different types of finishing treatment given for filter fabrics.
5. What do you mean by composite materials?
6. Distinguish between "Non-implantable" and "Implantable" medical textiles.
7. Distinguish between "Geo-synthetics" and "Geo-textiles".
8. Distinguish between "Water Permeable" and "Water Proof Material".
9. Enlist the construction particulars for "Tyre Cord" fabrics.
10. What are the essential properties for Transportation Textile Material?

PART B — (5 × 16 = 80 marks)

11. (a) Explain the Globalization status and scope of technical textiles.

Or

- (b) Give a detailed account of milestone in the development of technical textiles and also discuss the future scenario of this industry.

12. (a) Explain in detail the Reinforced Composite Textile Materials and also give details on the applications of the same.

Or

- (b) Explain the properties and end uses of High Strength High Modulus Organic Fibers for technical textiles.

13. (a) Describe the essential properties of Geo-textile and its structure for agriculture and horticulture applications.

Or

- (b) Write detailed notes on :

(i) Extra corporeal devices used in medical textiles.

(ii) Fibers for health care and hygiene products.

14. (a) Explain the Military Combat Clothing systems. Also give details on Camouflage concealment and deception textile materials.

Or

- (b) Write a detailed account of the Heat Protective and Ballistic Protective Textiles.

15. (a) Give an account of Textiles in Aircrafts and Textiles for Railways Applications.

Or

- (b) Explain in detail the Technical Textiles for Marine and Road Vehicle Applications.