

Total number of printed pages – 4 **B. Tech**
CPTX 8307

Sixth Semester Examination – 2008

TECHNICAL TEXTILE

Full Marks – 70

Time : 3 Hours

*Answer Question No. 1 which is compulsory
and any **five** from the rest.*

*The figures in the right-hand margin
indicate marks.*



1. Answer the following questions : 2 × 10
- (a) State the characteristics of the sewing thread.
- (b) Why Nylon-6 is best for tyre cord in comparison to other fibres ?

- (c) Which material is suitable for outer coating of hose pipe ?
- (d) State the merits of non-woven filter media over woven filter media.
- (e) Which type of fibre is most widely used in gas filtration and why ?
- (f) Which type of filter fabric is suitable for medical, nuclear, and electronic industry and why ?
- (g) Which types of flame resistant finishes are widely applied to cotton fabrics ?
- (h) How much should be the specific gravity of geo-textile and why ?
- (i) State the name of the fibre, that is stronger than the steel. State the reason also.
- (j) Which type of yarn is suitable for the conveyare belt ? State the reason also.

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Contd.

2. Explain the manufacturing process of asbestos fibre and state its properties and application. 10
3. Write the properties and applications of the following high tech fibres : 5+5
- (i) Nomex (ii) Kevlar.
4. Classify and discuss the various types of safety and protecting cloth. 10
5. (a) Explain the main functions of geo-textiles. 6
- (b) State the essential properties of geo-textile. 4
6. (a) Explain the factors to be considered while designing fabric for filtration. 5
- (b) State the applications of the filter fabric. 5

7. (a) Explain the manufacturing process of tyre cord. 6
- (b) State the physical and mechanical properties of tyre cord. 4
8. Explain in brief the application of fabrics in medical. 10