

Reg. No. :

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R 3621

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2007.

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 the requirements for a fibre to be used as agricultural nonwovens?
2. Name any two inorganic fibres.
3. Define composite.
4. Why is glass fibre used as reinforcement even though it is brittle?
5. What are requirements of filtration textiles?
6. Name any two non implantable materials.
7. What is importance of measurement of frictional resistance for geo textiles?
8. Differentiate between flame proof and flame retardant material
9. Why is nylon preferred material for tire cord?
10. Carbon fibre cannot be used as belt. Why?

PART B — (5 × 16 = 80 marks)

11. (a) Enumerate the production and properties of different types of glass fibres.

Or

- (b) Discuss the production and properties of aramid fibres.

12. (a) Explain the in plane mechanical properties of knitted composites.

Or

- (b) Explain the principle of filtration using textiles and explain the test procedures for filtration.

13. (a) Bring out a detailed note on characterization of geo textiles.

Or

- (b) Enumerate in detail the handling properties of different types of sutures.

14. (a) Elaborate how water proof breathable fabrics are produced..

Or

- (b) Discuss in detail the principle of ballistic protection.

15. (a) Write short notes on :

- (i) Textiles in air craft
- (ii) Hoses.

Or

- (b) Write short notes on :

- (i) Tyre cords
- (ii) Composites for marine applications.