

**B 609**

B.E./B. Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2005.

Sixth Semester

Textile Technology

TT 343 — QUALITY ASSESSMENT OF TEXTILES

(Common to Textile Chemistry)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the objectives of quality assessment?
2. Distinguish between online and offline testing techniques.
3. What are the uses of 't' test? Example.
4. What is span length?
5. What is the importance of fibre fineness?
6. What is the practical significance of trash analyser?
7. What is spectrogram?
8. What is the influence of twist on yarn and fabric characteristics?
9. What is 4 – point system of fabric inspection?
10. What is objective evaluation of fabrics?

PART B — (5 × 16 = 80 marks)

11. (i) What is the difference between objective evaluation and subjective evaluation of fabric. (6)  
(ii) What is the principle of working of compression module of KES – F tester? Explain. (10)
12. (a) What do you understand by Design of experiments? Explain in detail. (16)

Or

- (b) Explain the principle of working of length measurement in HVI. (16)

13. (a) (i) What is the importance of length measurement? (4)  
(ii) Explain the working principle of stelometer. (12)

Or

- (b) Explain the principle of working of Shirley moisture meter with sketches. (16)

14. (a) (i) What is the relationship between twist and strength. (4)  
(ii) Explain the principle of working of Evenness tester? Discuss on the V.L curve? (12)

Or

- (b) (i) What is Ring Data? Explain the working principle of Ring Data? (12)  
(ii) Discuss on the grading of Yarn. (4)

15. (a) Discuss in detail on the sensorial comfort. Explain the working of Bundes water repellency testor. (4 + 12)

Or

- (b) Discuss on the function of Textiles in enhancing thermal comfort. (16)
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