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V 4645

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

Fifth Semester

Textile Technology

TT 1305 — TEXTILE QUALITY EVALUATION

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is quality of conformance?
2. What are the reasons for quality evaluation?
3. What is Hypothesis testing and error associated with it?
4. What is Response Surface Plots?
5. What is the importance of fibre fineness on yarn quality?
6. What is standard testing atmosphere?
7. What are the factors influencing tensile testing?
8. What is the relationship between twist and strength?
9. What are the factors influencing pilling?
10. How will you select a fabric sample for tensile testing?

PART B — (5 × 16 = 80 marks)

11. (a) What is quality control and quality assurance? Discuss in detail in the yarn sampling methods for various tests.

Or

- (b) Discuss on the fibre sampling procedure.

12. (a) Discuss on design of experiments with a textile application.

Or

- (b) Explain the analysis of response surface designs and Taguchi designs.

13. (a) Explain the principle of working of vibrodyn.

Or

- (b) What are the causes for Neps? Explain the principle of working of AFIS-N module.

14. (a) What is Evenness? Explain the Analysis of spectrogram and V-L curve.

Or

- (b) Explain in detail the principle of working of USTER-Tensojet?

15. (a) What is the requirement for bursting strength? Explain the principle of working of Air-permeability tester.

Or

- (b) What is fabric handle? Explain the measurement techniques of low stress mechanical properties of fabrics.
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