

B.TECH DEGREE EXAMINATIONS: NOV/DEC 2010

Fifth Semester

TEXTILE TECHNOLOGY

U07TT506: Textile Quality Evaluation

Time: Three Hours

Maximum Marks: 100

Answer All Questions:-

PART A (10 x 1 = 10 Marks)

1. ISO-9003 is a model for ----- type of industries
(A) Design and development (B) Manufacturing (C) Testing and inspection (D) Production
2. A graphical depiction of a no of occurrences of an event is known as
(A) Control chart (B) Histogram (C) Scatter diagram (D) Flowchart
3. The percentage range of the uniformity ratio for cotton fibres in general is
(A) 40-50 (B) 55-65 (C) 70-80 (D) 85-95
4. Denier of cotton fiber with a maturity ratio of 0.9 and micronaire value of 4 will be approximately
(A) 1.0 (B) 1.3 (C) 1.6 (D) 1.9
5. With 500mm specimen length, strain rate (% per min) on a tensile tester with 5 m/min jaw speed would be
(A) 500 (B) 1000 (C) 5000 (D) 10000
6. Nep setting on evenness testers relates to the percent mass deviation based on yarn length of
(A) 1mm (B) 2mm (C) 6mm (D) 10mm
7. In connection with tear strength testing, which of the following is not correct?
(A) Higher yarn strength increases tear strength
(B) Higher fabric cover increases tear strength
(C) Lower yarn to yarn friction increases tear strength
(D) Higher float weave increases tear strength
8. In connection with abrasion testing of fabrics, higher values of abrasion can be attributed to
(P) Lower pressure on fabric (Q) Lower fabric tension
(R) Higher fabric compressibility (S) New abrading surface
(A) P,Q,S (B)R,S,P (C) P,Q,R (D) Q,R,S
9. The elasticity of a seam or stitching depends on
(i) The stitch type (ii) Thread strength (iii) Thread elasticity
(A) i & ii only (B)ii & iii only (C) i & iii only (D) i ,ii & iii

(i) Classification of yarn imperfections and faults by Classimat (7)

(ii) Working principle of USTER Tensojet (7)

24. (a) Explain in detail any two modules of KES for the evaluation of low stress mechanical properties and analyze the results for specific applications.

(OR)

(b) What is importance of bursting strength? Explain the working principle of bursting strength tester

25. (a) Explain the method of measuring seam strength of a garment and enlist the various factors influencing the garment seam strength.

(OR)

(b) Discuss the following

(i) Testing of zippers (7)

(ii) Testing of buttons and fusible interlinings (7)
