



**M.TECH DEGREE EXAMINATIONS: JUNE 2015**

(Regulation 2014)

Second Semester

**TEXTILE TECHNOLOGY**

P14TXT202: Fabric Quality Analysis

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. Relate list I with list II and match the correct codes given in the options [K<sub>1</sub>]

List I	List II
A. Stiffness	i. shari
B. Crispness	ii. Shinayakasa
C. Scrooping	iii. koshi
D. flexibility	iv. kishimi

A                      B                      C                      D

- a)      iii                  iv                  ii                  i  
b)      iv                  iii                  ii                  i  
c)      i                      ii                  iii                  iv  
d)      iii                  i                      iv                  ii

2. Pick out the Pre – ignition characteristics of a fabric that occurs during flame [K<sub>2</sub>]

- a) Flame temperatures                      b) Enthalpy changes  
c) Flame propagation rates                      d) Extinguish ability

3. Assertion (A): Dimensional Change due to Laundering and Cleaning [K<sub>1</sub>]

Reason (R): Due to non absorption of moisture

- a) [A] is right [R] is wrong                      b) [A] is right [R] is right  
c) [A] is wrong [R] is wrong                      d) [A] is wrong [R] is right

4. Name the dimensional crease which leads to Wrinkle behavior in fabrics [K<sub>1</sub>]

- a) Two dimension                      b) Three dimension  
c) Single dimension                      d) Multi dimension



17. Tell the use of TGA in Thermal stability measurement [K<sub>2</sub>]
18. Simulate the role of fibre crystallinity on fabric hand value [K<sub>2</sub>]
19. Tell about the measurable flammable Post-Ignition characteristics [K<sub>2</sub>]
20. Illustrate the role of weft yarns when fabric subjected to impact force [K<sub>3</sub>]

**PART C (10 x 5 = 50 Marks)**

21. Explain the test method employed for heat conductivity [K<sub>2</sub>]
22. Deduce the influence of multi-directional stress on fabric failure [K<sub>4</sub>]
23. Infer about any two standard flammability test methods [K<sub>4</sub>]
24. Discuss about the water vapour permeability Index along with the formulae [K<sub>2</sub>]
25. Demonstrate the objective evaluation of fabric handle [K<sub>3</sub>]
26. Relate the role of single fibre failure on fabric performance [K<sub>4</sub>]
27. Explain the test method employed for wrinkle recovery [K<sub>2</sub>]
28. Interpret the role of shear forces on tailorability of fabrics [K<sub>3</sub>]
29. Describe the common testing for tubular sleeves related to fabric appearance [K<sub>2</sub>]
30. Interpret the importance of heat setting on fabric dimensional stability [K<sub>3</sub>]

**PART D (2 x 10 = 20 Marks)**

31. Conclude the sequence of stages in ductile tensile failure of fabric with neat sketch [K<sub>4</sub>]
32. Appraise the test methods used for Bullet Proof vest and Cold weather clothing with neat sketch [K<sub>5</sub>]

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