[Total No. of Questions - 9] [Total No. of Printed Pages - 3] (2125)

15233

B. Tech 6th Semester Examination

Textile Testing-II (OS)

TE-6001

Time : 3 Hours **Max. Marks : 100**

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Candidates are required to attempt five questions in all selecting one question from each of section A, B, C, D of the question paper and all the subparts of the question in Section E.

SECTION - A

1. (a) What is CTT tester? Discuss the various yarn tests which are performed on CTT tester.

   (b) Discuss the factors that affect drape behaviour of a fabric.

   (c) How do you asses the shear behaviour of a fabric? (10+6+4=20)

2. (a) Discuss the factors affecting flame resistance of a fabric. Explain the working of inclined plane flammability tester.

   (b) Discuss the working of Togmeter for measuring thermal resistance of a fabric

   (c) How Togmeter is different from Guarded hot plate method? (10+6+4=20)

[P.T.O.]

SECTION - B

3. (a) Explain the term Primary hand value and THV. What are the factors that influence Fabric handle, Explain.

   (b) Explain the mechanism of heat loss from the human body. How clothing helps us maintain heat balance? (10+10=20)

4. (a) What is the difference between tensile tear and bursting strength?

   (b) Discuss the factors that influence fabric tensile test.

   (c) During Tensile Testing of fabric which fabric will give higher strength plain or satin, why? (7+6+7=20)

SECTION - C

5. (a) What do you understand by seam pucker? Explain different type of seam pucker, their causes and remedies.

   (b) What chemical methods are followed in distinguishing:

   (i) Wool and Silk.

   (ii) Animal fibres and Synthetic fibers.

   (c) Describe the method of measuring wash fastness of a fabric. (10+5+5=20)

6. (a) What is seam slippage? Explain any one method of measuring seam slippage.

   (b) Discuss various factors that affect seam strength of a garment.

   (c) What is rubbing fastness and how it is measured? (7+6+7=20)

SECTION - D

7. (a) Explain ISO 9000 Standards Series. What are the benefits of international standards?

   (b) Why we need standards methods for measuring quality?

   (c) What is textile product labelling? Explain the information which they convey. (7+6+7=20)

8. (a) Define reproducibility and repeatability.

   (b) Describe the causes of variation in fabric quality.

   (c) Explain the difference between quality control and quality assurance.

   (d) Why is it important to keep track on quality cost? (4+6+5+5=20)

SECTION - E

9. Attempt all questions in this section.

   (a) Briefly explain formability, Hygral expansion.

   (b) State the advantages of FAST in the Garment industry.

   (c) What is the effect of yarn twist on fabric abrasion resistance?

   (d) In a spinning mill fibre bundle strength is preferred over single fibre strength, why?

   (e) List any two factors which results in pill formation.

   (f) Explain the term crimp interchange.

   (g) What are the objectives of testing crimp in a continuous filament yarn?

   (h) Which instruments of Kawabata Evaluation System is used to measure surface friction of fabric?

   (i) What is the difference between water proof and water permeability?

   (j) What are the causes of stickiness in yarn? (10×2=20)