[Total No. of Questions - 9] [Total No. of Printed Pages - 4] (2064)

14732

B. Tech 6th Semester Examination Textile Testing-II TE-6001

Time: 3 Hours Max. Marks: 100

The candidates shall limit their answers precisely within the answerbook (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) Explain the working principle of a Friction Tester based on dynamic principle. (8)
 - (b) Discuss the test procedure to measure fabric weight.

 (4)
 - (c) State any four precautions to be taken during evaluation of fabric thickness. (4)
 - (d) What is the effect of threads/unit length and weave on drape of a fabric? (4)
- 2. (a) Define air permeability, air resistance and thermal insulation value of the fabric. (6)
 - (b) Discuss a suitable method to measure the air permeability. (8)

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		(6)		
SECTION - B				
(a)	Distinguish between serviceability, wear and abrasio fabrics.	n of		
(b)	Explain briefly the types of test done to evaluate the "THANGE VALUE" of the fabric.	ota (8)		
(c)	List any four reasons for pill formation on fabric surfa	(4)		
(d)	How to measure the crease recovery of a fabric?	(4)		
(a)	Discuss the factors affecting the tearing strength of fabric.	of a (4)		
(b)	What is the effect of crimp on abrasion resistance fabric?	of (4)		
(c)	Describe any method of measuring fabric abrasion.	(8)		
(d)	How to use gray scales?	(4)		
	SECTION - C			
(a)	Describe the test procedure to measure the colfastness to rubbing.	oui (5)		
(b)	What is 4-point system of grading fabric?	(5)		
(c)	_	of a (10)		
(a)	Describe the test procedure to measure the launde fastness.	ring (5)		
(b)	What do you mean by puckering of seam?	(3)		
	(b) (c) (d) (a) (b) (d) (d) (a) (b) (c) (a)	 (a) Distinguish between serviceability, wear and abrasion fabrics. (b) Explain briefly the types of test done to evaluate the "Thandle Value" of the fabric. (c) List any four reasons for pill formation on fabric surfaction. (d) How to measure the crease recovery of a fabric? (a) Discuss the factors affecting the tearing strength of fabric. (b) What is the effect of crimp on abrasion resistance fabric? (c) Describe any method of measuring fabric abrasion. (d) How to use gray scales? SECTION - C (a) Describe the test procedure to measure the collastness to rubbing. (b) What is 4-point system of grading fabric? (c) Discuss the method to measure the seam strength of woven and knitted fabric. (a) Describe the test procedure to measure the launder fastness. 		

(c) What is the importance of Constant Tension Winding

	, ,	blended yarn?	(4
	(d)	Illustrate all the causes of seam pucker elaborately.	(8
		SECTION - D	
7.	(a)	What are the ISO 9000 series standard?	(5
	(b)	How to prepare samples to check fabric strength?	(5
	(c)	Explain the factors that influence the customer perceptof quality.	tio 10
3.	(a)	Mention the full name of sources of any four stand test methods for textiles.	ard (4
	(b)	How does ISO define quality? Explain.	(4
	(c)	Define reproducibility and repeatability.	(4
	(d)	Why is it important to know cost of quality or keep transfer of quality cost?	acl (8
		SECTION - E	
9.	Atter	mpt all questions in this section. (Compulsory)	
	(a)	Name the light sources used for evaluation of cold fastness to light.	эu
	(b)	Express mathematically-Drape-coefficient.	
	(c)	How can you segregate viscose and cotton by chem analysis?	ica
	(d)	Why dynamic yarn testing instruments are preferred that instruments worked on steady state principle?	na
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(c) How can you calculate the blend percentage from P/C

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- (e) Which "KAWABATA" instrument is used to check the tensile and shear properties of textile material?
- (f) Mention the international standard for specimen length and pre-tension for a CRE tester.
- (g) How seam efficiency is expressed?
- (h) What is the importance to check the low stress mechanical properties of a fabric?
- (i) How to collect fabric samples from a roll of a fabric for testing purpose?
- (j) Arrange following textile material as per diminishing crease resistance : Silk, Cotton, Wool, Viscose, Polyester. (10×2=20)