Register Number:……..

KUMARAGURU
college of technology
character is life

B.TECH DEGREE EXAMINATIONS: NOV/DEC 2023

(Regulation 2018)

Fifth Semester

FASHION TECHNOLOGY

U18FTI5202:Textile and Apparel Quality Evaluation

COURSE OUTCOMES

CO1: Acquire knowledge in sampling techniques of fibers, yarns and fabrics and also in various method of measuring yarn number
CO2: Apply knowledge in principles of working of fiber & yarn testing instruments
CO3: Apply knowledge in principles of working of fabric testing instruments
CO4: Correlate knowledge in evaluation of fabric handle properties
CO5: Acquire knowledge on testing instruments used for accessories
CO6: Analyze knowledge in the measurement of fastness properties of fabrics

Time: Three Hours **Maximum Marks: 100**

Answer all the Questions:-
PART A (10 x 2 = 20 Marks)
(Answer not more than 40 words)

1.	Differentiate random and biased samples.	CO1	[K_2]
2.	List the standard atmospheric conditions required for textile testing.	CO1	[K_1]
3.	State the principle of optical method of yarn evenness measurement.	CO2	[K_1]
4.	Illustrate the effect of yarn twist on the short staple yarn strength.	CO2	[K_3]
5.	What is the constant rate of specimen elongation?	CO3	[K_2]
6.	Give the standards used to test the fabric in Strip test method.	CO3	[K_2]
7.	What is fabric drape coefficient?	CO4	[K_1]
8.	Mention the advantage of strain gauge instrument in fabric testing	CO4	[K_2]
9.	Report the standard followed in measuring the seam strength with its features	CO5	[K_2]
10.	State the objective of button impact strength testing.	CO6	[K_1]

Answer any FIVE Questions:-
PART B (5 x 16 = 80 Marks)
(Answer not more than 400 words)

11.	a)	State and explain the process of zoning techniques used in the raw fiber sampling process	8	CO1	[K_3]

	b)	Explain in detail the working of wet and dry bulb hygrometer with neat illustration.	8	CO1	[K_3]
12.	a)	State and explain the working of single yarn strength tester with sketch	8	CO2	[K_3]
	b)	Evaluate the working of Stelometer used in fiber strength measurement.	8	CO2	[K_4]
13.	a)	Illustrate and explain the working of hydraulic bursting strength tester	8	CO3	[K_3]
	b)	Outline the working of Martindale abrasion tester and discuss the weight loss calculation methods	8	CO3	[K_3]
14.	a)	Detail the working of fabric air permeability tester with neat sketch	8	CO4	[K_3]
	b)	Analyse the working of Shirley stiffness tester.	8	CO4	[K_3]
15.	a)	Explain in detail the working of peel bond strength tester with neat illustration	8	CO5	[K_4]
	b)	Outline the principle of zipper endurance tester machine with their working.	8	CO5	[K_4]
16.	a)	Evaluate the colour fastness testing of textiles for washing and rubbing (dry and wet) with their standards	10	CO6	[K_4]
	b)	Summarise the role of fabric dimensional characteristics on quality of the product.	6	CO6	[K_3]

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