KUMARAGURU
college of technology
character is life

B.TECH DEGREE EXAMINATIONS: NOV/DEC 2024

(Regulation 2018)

Fifth Semester

TEXTILE TECHNOLOGY

U18TXE0009: Clothing Science

COURSE OUTCOMES

CO1:   Understand clothing concept for wear comfort

CO2:   Estimation of thermal and moisture transmission characteristics of various fabrics and their suitability of applications.

CO3:   Correlate the tactile property of the fabric with comfort to the wearer.

CO4:   Design of a fabric with suitable fibre type, yarn structure, fabric structure and finishes for various garment end uses.

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

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

1.	Recall the reasons for wearing clothing.	CO1	[K1]
2.	List the different aspects of clothing comfort	CO1	[K1]
3.	What does thermoregulation of the human body mean?	CO2	[K1]
4.	Define Tog and Clo.	CO2	[K1]
5.	Enumerate four factors that affect air permeability of clothing.	CO2	[K1]
6.	How does contact angle affect wetting? Draw a simple diagram to depict the same.	CO2	[K2]
7.	Name four mechanoreceptors present in the human skin.	CO3	[K1]
8.	List the factors that increase the prickliness of garments.	CO3	[K1]
9.	Show the difference between foundation, tight-fit, and loose-fit garments.	CO4	[K2]
10.	Label the deficiencies of the traditional methods of body-size measurement.	CO4	[K1]

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

11.	a)	Analyze four factors affecting selection of clothing by a software engineer and a farmer.	10	CO1	[K4]
	b)	What do you understand by clothing comfort?	6	CO1	[K2]
12.		Outline the working of two-plate and single-plate togmeter with the help of simple diagram.	16	CO2	[K3]
13.	a)	Explain the testing of vertical wicking with a simple diagram	8	CO2	[K3]
	b)	Develop on the importance of clothing ventilation in relation to comfort.	8	CO2	[K3]
14.		Describe two aspects of the FAST (fabric assessment by simple testing) System.	16	CO3	[K3]
15.		Compare the fit and comfort requirements of garments worn by 1) firefighter and 2) motorcycle-race driver.	16	CO4	[K4]
16.	a)	Distinguish two non-thermal comfort variables.	8	CO1	[K4]
	b)	Brief about the factors that can modify tactile characteristics of textiles.	8	CO3	[K3]

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