KUMARAGURU
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Register Number:……

M.TECH DEGREE EXAMINATIONS : JUNE 2018

(Regulation 2015)

Second Semester

APPAREL TECHNOLOGY

P15ATE202 : Home Textiles

COURSE OUTCOMES

CO1: Identify the most suitable fabrics for home textile application

CO2: Formulate a suitable finish depending on the end use in the field of Home textiles.

CO3: Identify and develop home textile products for home and Commercial applications.

CO4: Develop home textile products based on international performance.

CO5: Evaluate the performance of home textile products as per standards.

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

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Assertion (A): Ingeo Fiber is durable like polyester and biodegradable. CO1 [K_4]
   Reason (R): The primary feedstock dextrose from corn accounts for its biodegradability.

   a) Both A and R are Individually true and R is the correct explanation of A
   b) Both A and R are Individually true but R is not the correct explanation of A
   c) A is true but R is false
   d) A is false but R is true

2. Identify the most sustainable fiber. CO1 [K_2]

   a) Organic cotton
   b) hemp
   c) bamboo
   d) Ahimsa silk

3. The mandatory finish for blankets while exporting to Canada CO2 [K_2]

   a) Moisture management finish
   b) Aroma finish
   c) Flame retardency finish
   d) Soil repellency finish

4. Match List I with List II CO2 [K_4]

List I	List II
A. Ticking	i. Has the leathered look of garments
B. Oil based paints	ii. Uses tightly twisted yarns with cut or uncut pile
C. Berber Carpets	iii. Greater drag and difficult to handle
D. Frieze	iv. The fabric covering for mattress and box springs

	A	B	C	D
a)	ii	i	iii	iv
b)	iv	iii	i	ii
c)	ii	iv	iii	i
d)	iii	i	ii	iv

5. Assertion (A): It is comfortable while using memory foam as mattress in beds. CO2 [K_4]

Reason (R): The shape of the sleeper is etched in the memory foam to provide maximum comfort

a) Both A and R are Individually true and R is the correct explanation of A
b) Both A and R are Individually true but R is not the correct explanation of A
c) A is true but R is false
d) A is false but R is true

6. In the US market, mislabeling is termed when the fiber constituent in the home textile product deviates larger than CO4 [K_2]

a) 9%
b) 7%
c) 3%
d) 5%

7. Which of the following statement(s) is/are true? CO3 [K_3]

1. The performance specification for curtains and drapes is a tear strength of a minimum of 1000cN
2. Colour fastness properties for home textiles for export can be shade change – class 1
3. Inspection of home textiles is done after the packing of the product
4. In the UK market,the requirement for bed spreads is a shade change equivalent to Grade 4 for 5,000 rubs in the test for abrasion.

a) 1,4
b) 2,3
c) 2, 4
d) 1,3

8. The technology that allows for fragrance or active ingredients to be released from home textiles like bed sheets — CO3 [K_2]

a) Moisture cross linking
b) Sensory Perception technology
c) Exothermic reaction
d) Limiting oxygen index

9. The textile fiber identification label is a ---------- label — CO3 [K_2]

a) voluntary
b. Semi mandatory
c) Semi voluntary
d. mandatory

10. Identify the methodology for obtaining OEKO-TEX certification for home furnishings — CO4 [K_3]

1. Test plan and test procedure for evaluation
2. Certificate issued for one year
3. Application form and sample material for obtaining certificate
4. Evaluation of result with OEKO-TEX test standard
5. Conformity declaration & evidence for quality assurance system

a) 5, 4, 1, 2, 3
b) 3, 1, 4, 5, 2
c) 4, 2, 3, 5, 1
d) 1, 4, 3, 2, 5

PART B (10 x 2 = 20 Marks)

11.	Reason why sustainable fibers are used for Home Textiles.	CO1	[K_2]
12.	Explain the mechanism of any one special finish for Table Linen.	CO2	[K_2]
13.	What is the window dressing that are ideal for a roadside restaurant?	CO3	[K_3]
14.	Differentiate between draperies and curtains.	CO3	[K_3]
15.	Explain the importance of performance specification with a suitable example.	CO4	[K_3]
16.	Explain the term ‘eco-labelling’.	CO3	[K_2]
17.	Explain the principle of temperature regulated beddings.	CO4	[K_2]
18.	Explain the remedy for addressing unpleasant odor in bath towels in beach resorts.	CO5	[K_5]
19.	Explain any one home textile enhancements using nano technology.	CO4	[K_3]
20.	Brief about any one test for pot holders and woven mitts.	CO5	[K_2]

PART C (6 x 5 = 30 Marks)

21.	Explain the nonwoven manufacturing technologies used in home textiles.	CO1	[K_2]
22.	Illustrate and explain the different types of window dressings.	CO3	[K_3]
23.	Briefly explain the performance requirements for bed linen in the US market.	CO4	[K_2]
24.	Enumerate on sensory perception technology and its application in home textiles.	CO2	[K_3]

25.	Explain the regulatory test for carpets and rugs.	CO4	[K_2]
26.	Prepare a plan for producing a bed linen with any two special finishing treatments.	CO4	[$K_{5,6}$]

Answer any FOUR Questions
PART D (4 x 10 = 40 Marks)

27.	'Home textile manufacturing and market is concentrated in developing countries'- Discuss with suitable data and examples.	CO4	[K_5]
28.	Enumerate on the different types, manufacturing techniques, advancements and maintenance of floor coverings.	CO3	[K_2]
29.	'Labels present information about the product to the Government and customers'. – Discuss in terms of global specifications.	CO4	[K_5]
30.	Explain the different types of special finishes given to home textiles and their effective functions.	CO2	[K_2]
31.	Write notes on :	CO5	[K_2]
	i. Flammability regulations for home textiles. (5)		
	ii. Test methods for evaluation of towels. (5)		

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