



**M.TECH DEGREE EXAMINATIONS: JUNE 2015**

(Regulation 2014)

Second Semester

**APPAREL TECHNOLOGY**

P14FTE202: Home Textiles

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. Matching type item with multiple choice code [K<sub>3</sub>]

**List I**

- A. Ticking
- B. Oil based paints
- C. Berber Carpets
- D. Frieze

**List II**

- 1. Has the leathered look of garments
- 2. Uses tightly twisted yarns with cut or uncut pile
- 3. Greater drag and difficult to handle
- 4. The fabric covering for mattress and box springs

	A	B	C	D
a)	4	3	1	2
b)	4	3	2	1
c)	3	4	1	2
d)	3	1	4	2

2. The pile yarns in a carpet is known as ----- [K<sub>1</sub>]

- a) Face yarns
- b) Backing yarns
- c) Flocking yarns
- d) Tuft yarns

3. Assertion (A): Mattress for flammability test should be tested in atmospheric conditions [K<sub>4</sub>]

greater than 18°C and relative humidity less than 55%

Reason (R): 9 cigarettes are to be burned on the bare mattress and another 9 cigarettes to be burned on mattress with sheets

- 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. oxidation-reduction reaction
3. deodorization of unpleasant odor components
4. catalytic action of the biomimetic enzyme
5. biomimetic enzyme invested into a corrugate carrier

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

**PART B (10 x 2 = 20 Marks)**

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|---|-------------------|
| 11. Differentiate between vinyl-coated wall paper and paper- backed vinyl wall paper.           | [K <sub>2</sub> ] |
| 12. Formulate a diagrammatic representation of the warp knitting process.                       | [K <sub>6</sub> ] |
| 13. Develop a multi finished bed linen for a European Buyer.                                    | [K <sub>6</sub> ] |
| 14. Assess and choose the best finishing chemicals for temperature regulated bedding.           | [K <sub>5</sub> ] |
| 15. Differentiate between moisture cross linking finish and cross linking finish for bed linen. | [K <sub>2</sub> ] |
| 16. Plan a sensory perception system for bed linen at an ayurvedic medical centre.              | [K <sub>6</sub> ] |
| 17. What is meant by thermo label?  | [K <sub>1</sub> ] |
| 18. Choose any two tests that would highlight the absorbency capacity of bath towels.           | [K <sub>5</sub> ] |
| 19. Develop a table which encompasses the components of ISO 14000.                              | [K <sub>6</sub> ] |
| 20. Differentiate between simple diffusion and capillary transfer in moisture management.       | [K <sub>2</sub> ] |

**PART C (10 x 5 = 50 Marks)**

- |   |                   |
|---|-------------------|
| 21. Examine the future of new fibers used for home textiles.  | [K <sub>4</sub> ] |
| 22. Discuss the role of non wovens in the manufacture of home textiles.   | [K <sub>2</sub> ] |
| 23. Evaluate the merits and demerits of any two construction methods for carpets.   | [K <sub>4</sub> ] |
| 24. Explain the role of water repellent finishes in adding value to home textiles.  | [K <sub>2</sub> ] |
| 25. Assess the use of microencapsulation in the application of special finishes for home textiles.                          | [K <sub>5</sub> ] |
| 26. Discuss the role of any two organic certification for bath towels.  | [K <sub>2</sub> ] |
| 27. Analyze reasons for labelling products under Oeko-tex Standard 100 and GOTS   | [K <sub>4</sub> ] |
| 28. Examine the route by which moisture percolates into fabrics for home textiles without causing discomfort to the person. | [K <sub>4</sub> ] |
| 29. Recommend the analysis parameters for assessing the appearance and durability of a printed motif in home textiles.      | [K <sub>4</sub> ] |
| 30. Analyze the concept underlying temperature regulated bedding.   | [K <sub>4</sub> ] |

**PART D (2 x 10 = 20 Marks)**

31. Categorize and explain the salient features of nano technology based textile enhancements for home textiles used for domestic and commercial purpose. [K<sub>4</sub>]
32. “Performance requirements are to be clearly indicated by suitable tests in order to export Home Textiles to any global market”. Justify with suitable example. [K<sub>5</sub>]

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