



B.TECH DEGREE EXAMINATIONS: APRIL / MAY 2023

(Regulation 2018)

FASHION TECHNOLOGY

U18FTE0007: Clothing Science for Apparel Engineering

COURSE OUTCOMES

- CO1:** Acquire Knowledge on the basic requirements in the design of apparel engineering
CO2: Recognize and associate the objective and subjective evaluation of clothing fit
CO3: Recognize and associate the effect of fiber properties, yarn structure and fabric construction on the fabric aesthetic & appearance
CO4: Recognize and associate the effect of fiber properties, yarn structure and fabric construction on the fabric dimensional stability.
CO5: Acquire knowledge and associate the effect of fiber properties, yarn structure and fabric construction on the fabric Serviceability.
CO6: Enhance knowledge and associate the effect of fiber properties, yarn structure and fabric construction on the fabric handle & clothing comfort

Time: Three Hours

Maximum Marks: 100

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

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|---|-----------------------|
| 1. Give a short note on apparel designing and its importance | CO1 [K ₂] |
| 2. Enlist the ergonomic factors involved in clothing design | CO1 [K ₂] |
| 3. Highlight a short note on drop value, how far it will be differentiated from men & women | CO2 [K ₃] |
| 4. Enlist the different factors which influencing fit in clothing | CO2 [K ₂] |
| 5. Articulate various factors which influence the pilling of fabric | CO3 [K ₂] |
| 6. Narrate the properties enhancing the aesthetic appearance of apparel. | CO4 [K ₂] |
| 7. State about the factors to determine the seam strength of a fabric | CO4 [K ₂] |
| 8. Highlight the process parameters for fusing | CO5 [K ₂] |
| 9. State about the factors influencing the comfort of fabrics | CO6 [K ₂] |
| 10. Differentiate between wetting and wicking property | CO6 [K ₄] |

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

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|-----|----|--|----|-----|-------------------|
| 11. | a) | Discuss about the various factors involved in apparel designing. | 8 | CO1 | [K ₅] |
| | b) | Highlight about the steps involved in the process of clothing design. | 8 | CO1 | [K ₅] |
| 12. | a) | Enumerate about the testing methods used for dimensional fit through live models & dress forms. | 10 | CO2 | [K ₄] |
| | b) | Discuss about the Principles of sizing system with suitable examples. | 6 | CO2 | [K ₂] |
| 13. | a) | Categorize the role of selection of fiber, yarn structure and fabric construction, physical characteristics related to clothing fit and appearance based on aesthetics & appearance. | 16 | CO3 | [K ₄] |
| 14. | a) | Inference the parameters which affects fabric shade variation with respect to fiber and fabric properties. | 8 | CO4 | [K ₄] |
| | b) | Interpret the parameters which affects fabric fastness properties with respect to fiber, yarn & fabric properties, various factors influencing the light & rubbing fastness. | 8 | CO5 | [K ₅] |
| 15. | a) | Appraise the different types of fabric shrinkages & various factors affecting fabric shrinkage. | 10 | CO5 | [K ₅] |
| | b) | Differentiate the Seam Strength and Seam Slippage with respect to fiber properties. | 6 | CO5 | [K ₃] |
| 16. | a) | Elucidate the objective evaluation of fabric hand properties by KES with suitable examples. | 8 | CO6 | [K ₄] |
| | b) | Summarize the method of air permeability property of fabrics are evaluated in accessing the comfort factors of the fabrics with examples. | 8 | CO6 | [K ₄] |