



B.TECH DEGREE EXAMINATIONS: APRIL / MAY 2023

(Regulation 2018)

Sixth Semester

FASHION TECHNOLOGY

U18FTE0009: Functional Clothing

COURSE OUTCOMES

- CO1:** Summarize the classification and design requirements of various classifications of functional clothing
- CO2:** Choose the requirements of functional clothing as per the end use of the consumer
- CO3:** Appraise technical specifications for functional clothes
- CO4:** Choose suitable textile raw materials suitable for developing functional clothes
- CO5:** Apply the knowledge on textiles processes in designing functional clothing
- CO 6** Acquire knowledge on the evaluation methods and standards available to evaluate the various functional clothing

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. Enlist the types of Functional Garments | CO1 [K1] |
| 2. Mention the key components influencing pattern engineering | CO1 [K1] |
| 3. Brief about the three layers of shoe material used in Running Shoes. | CO2 [K2] |
| 4. Illustrate about the needs of Therapeutic clothing | CO2 [K2] |
| 5. Infer the role of ballistic protective clothing & the fibers used | CO3 [K2] |
| 6. Explain about the chemical protective clothing | CO3 [K3] |
| 7. Discuss about the protective cloth used against dangerous pathogens | CO4 [K3] |
| 8. Mentions the primary function of Vanity clothing | CO4 [K3] |
| 9. Explain about the Adaptive Clothing | CO5 [K2] |
| 10. Write a short note about the standards used for evaluating clothing made of wearable electronics. | CO6 [K3] |

**Answer any FIVE Questions:-
PART B (5 x 4 = 20 Marks)
(Answer not more than 80 words)**

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| 11. Classify functional clothing based upon their end uses and their requirements. | CO1 | [K3] |
| 12. Summarize the role fit in Functional Clothing. | CO2 | [K3] |
| 13. Brief about the characteristics of medical textile with reference to wound dressing material. | CO3 | [K3] |
| 14. Summarize the role of biosensors & its application | CO4 | [K4] |
| 15. Give the design requirement of dress for special needed persons in wheel chair. | CO5 | [K2] |
| 16. Suggest the standards applied for Abrasion resistance of Air Permeability and Wrinkle recovery of Military Textiles. | CO6 | [K2] |

**Answer any FIVE Questions:-
PART C (5 x 12 = 60 Marks)
(Answer not more than 300 words)**

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| 17. a) Summarize the different design aspects of Functional Clothing. | 6 | CO1 | [K3] |
| b) Outline the role of the Garment Fit in production of functional clothing | 6 | CO1 | [K3] |
| 18. a) Illustrate the role of extracorporeal devices in medical textiles | 6 | CO2 | [K3] |
| b) Summaries the materials used and categories of medical Bandages | 6 | CO2 | [K4] |
| 19. a) Criticise the working principle involved in bullet-proof fabrics | 6 | CO3 | [K3] |
| b) Enumerate the function of ballistic protective clothing. | 6 | CO3 | [K3] |
| 20. a) Inference the role on materials used, fibers, requirements, and functions of sportswear | 6 | CO4 | [K3] |
| b) Discuss about the categorization of sportswear based on physical activity and weather conditions | 6 | CO4 | [K4] |
| 21. a) Categorize the various fibres and pattern requirements, used in footwear | 6 | CO5 | [K3] |
| b) Elaborate on the functions of Space suits | 6 | CO5 | [K4] |
| 22. a) Contrast the various adopting cloth used for the people with special needs | 6 | CO6 | [K4] |
| b) Criticize the role of the vanity cloth for Body shaping, support and contouring for enhanced appearance | 6 | CO6 | [K4] |
