

B.E/B.TECH DEGREE EXAMINATIONS: NOV /DEC 2024

(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. | | CO1 | [K1] |
| | Conscript the classification of Functional Garments | | |
| 2. | Mention the steps involved in designing of Functional cloth | CO1 | [K1] |
| 3. | Enlist the fibres used for bullet-proof jackets | CO2 | [K2] |
| 4. | Illustrate about the needs of pressure garments | CO2 | [K2] |
| 5. | Infer the role of flameproof clothing as a protective textiles | CO3 | [K2] |
| 6. | Sequence the manufacturing process of shoe used for running. | CO3 | [K3] |
| 7. | Articulate the types of Clothing for Body Protection against electric shock | CO4 | [K _L] |
| 8. | Mentions the primary function of Vanity clothing | CO4 | [K3] |
| 9. | Explain about the variety of purpose of Adaptive Clothing | CO5 | [K2] |
| 10. | Line up the application of E-Textiles in functional clothing | CO6 | [K3] |

Answer any FIVE Questions:-

PART B (5 x 4 = 20 Marks)

(Answer not more than 80 words)

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|-----|---|-----|------|
| 11. | Deliberate the classification of designing of cloth according to Matsuo | CO1 | [K3] |
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12.	Summarize the key components influencing pattern engineering of functional clothing		CO1	[K3]
13.	Articulate about the classification of medical textiles and their functions		CO2	[K3]
14.	Explain about the role of biosensors & its application in functional clothing		CO2	[K4]
15.	Discuss about the Type of Shape wear		CO5	[K2]
16.	Enumerate the characteristics of combat textiles		CO6	[K2]

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

17.	a)		6	CO1	[K3]
		Paraphrase the application of functional textiles based on function			
	b)	Outline the role of the Garment Fit in production of functional clothing	6	CO1	[K3]
18.	a)	Illustrate the textile materials used for extra corporeal devices, and their details	6	CO2	[K3]
	b)	Summaries the materials and categories of Health care & hygiene products	6	CO2	[K4]
19.	a)		6	CO3	[K3]
		Appraise the functional principle involved in bullet-proof fabrics with illustrative diagram.			
	b)	Enumerate the working principle of ballistic protective clothing with neat sketch.	6	CO3	[K3]
20.	a)	Inference the role on materials used, fibers, requirements, and functions of sportswear	6	CO4	[K3]
	b)	Explain about the classification 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)	Discuss about the functions of Space suits cloth which is used for astronauts	6	CO5	[K4]
22.	a)	Contrast the design features to be considered when designing clothes for people with disability	6	CO6	[K4]
	b)	Elaborate on requirements of a Space Suit and its components	6	CO6	[K4]
