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Reg. No. :

Code No.: 30567 E **Sub. Code: EECF 62/
EEFT 62/EEFD 62**

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2026.

Sixth Semester

Costume Design and Fashion Design/Fashion
Technology/Fashion Designing and Apparel Making –
Elective

TECHNICAL TEXTILES

(For those who joined in July 2023 onwards)

Time : Three hours Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Technical textiles are primarily designed for
 - (a) Decoration
 - (b) Fashion
 - (c) Functional purpose
 - (d) Traditional use
2. Glass fibres are mainly used for
 - (a) Reinforcement (b) Clothing
 - (c) Fashion wear (d) Decoration
3. Smart characteristics of clothing include
 - (a) Structural (b) Functional
 - (c) Aesthetic (d) All of the above
4. Surgical gowns are an example of
 - (a) Fashion textiles (b) Decorative textiles
 - (c) Home textiles (d) Medical textiles
5. Mechanical protective clothing protects from
 - (a) Fire (b) Abrasion
 - (c) Radiation (d) Electricity
6. Electrical protective clothing prevents
 - (a) Water damage (b) Heat damage
 - (c) Dust (d) Electric shock
7. Functional fibres used in sportswear include
 - (a) Cotton only (b) Wool only
 - (c) Synthetic (d) Silk

8. Breathable fabrics help in
(a) Ventilation (b) Colour change
(c) Weight increase (d) Decoration
9. Chameleon fibres change
(a) Weight (b) Shape
(c) Colour (d) Thickness
10. Shape memory polymers can
(a) Change colour
(b) Return to original shape
(c) Change weight
(d) Melt easily

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).
Each answer should not exceed 250 words.

11. (a) Write short notes on natural fibres used in technical textiles.
Or
(b) Write about high performance fibres.

12. (a) Define functional apparels.
Or
(b) Explain materials used in medical textiles.
13. (a) Explain the selection of materials for protective wear.
Or
(b) Describe the functions of protective textiles.
14. (a) Write about functional fibres used in sportswear.
Or
(b) Explain finishing methods used in sportswear.
15. (a) Explain nano fibres and their properties.
Or
(b) Explain stimuli sensitive textiles.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)
Each answer should not exceed 600 words.

16. (a) Explain the scope and importance of technical textiles.

Or

- (b) Explain the role of glass and ceramic fibres in technical textiles.

17. (a) Discuss the smart characteristics required in clothing.

Or

- (b) Elaborately explain about healthcare and hygiene textile products.

18. (a) Explain flame resistant protective clothing and its functions.

Or

- (b) Describe electrical protective clothing and its requirements.

19. (a) Explain sweat management in sports textiles.

Or

- (b) Describe footwear clothing and fabric requirements.

20. (a) Explain the concept of smart and intelligent textiles.

Or

- (b) Explain shape memory polymers and their properties.