

PART B (10 x 2 = 20 Marks)

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| 11. State the fundamental requirements for selecting sports apparels | CO1 | [K ₂] |
| 12. Illustrate about the role of balance in sports garment designing with examples | CO1 | [K ₃] |
| 13. Highlight the test methods and standards for different sport clothing | CO2 | [K ₂] |
| 14. State the factors affecting the choice of natural biomaterials for therapeutic clothing | CO3 | [K ₂] |
| 15. Indicate the steps for designing body shaping garments with examples | CO3 | [K ₃] |
| 16. Outline the use of electronic based Sensors in medical textiles | CO4 | [K ₂] |
| 17. List the seam types used in pressure garment construction. | CO5 | [K ₁] |
| 18. Give examples for the applications of textiles used as bandaging materials | CO5 | [K ₁] |
| 19. Discuss about the wound scar management with suitable examples | CO6 | [K ₂] |
| 20. State about any two methods of mobile health monitoring system | CO6 | [K ₃] |

PART C (6 x 5 = 30 Marks)

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| 21. Design any one sports garment suitable for adolescent boys and prepare a specification sheet for the same garment | CO1 | [K ₆] |
| 22. Elucidate about the multi – functional performance of clothing with examples | CO2 | [K ₂] |
| 23. Design any one women’s sports garment with the application of any four principles of design factors with a neat sketch | CO2 | [K ₆] |
| 24. Describe in detail about the classes of textile material used as biomaterials in medicinal field | CO3 | [K ₂] |
| 25. With neat line diagram, explain in detail about the different kinds of wound care dressings classification with its applications | CO6 | [K ₂] |
| 26. Illustrate about the any two bio- sensing monitor for assessing physiological parameters with suitable example | CO5 | [K ₂] |

Answer any FOUR Questions

PART D (4 x 10 = 40 Marks)

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| 27. Explain briefly about the process and steps involved in clothing design with examples | CO1 | [K ₂] |
| 28. Infer about the therapeutic rehabilitative clothing and its role for healthcare applications | CO4 | [K ₂] |

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| 29. | With neat line diagram, explain in detail about the phase change materials according to their application in medical field. | CO3 | [K ₂] |
| 30. | Explain about wound healing process and requirements of wound dressings. | CO5 | [K ₂] |
| 31. | Analyse in detail about the smart medical textiles with reference to Moisture transport – wetting and wicking and water vapour transfer property test on materials. | CO6 | [K ₄] |
