





13. Categorize thermal exchange takes place between body and environment. [K<sub>4</sub>]
14. List the objective of pretreatment in chemical processing of textile goods. [K<sub>1</sub>]
15. List the advantages of hollow fibres over solid fibers. [K<sub>3</sub>]
16. Explain the effects of yarn structures on clothing comfort. [K<sub>2</sub>]
17. Express the effects of yarn structures on clothing comfort. [K<sub>2</sub>]
18. Explain profiled fibres. [K<sub>2</sub>]
19. Define WVP. [K<sub>1</sub>]
20. Give the techniques of producing micro fibres. [K<sub>3</sub>]

**PART C (10 x 5 = 50 Marks)**

21. Summarize low stress mechanical properties of fabrics. [K<sub>3</sub>]
22. Show the interrelationships between the physical and physiological factors those control the clothing comfort. [K<sub>2</sub>]
23. Outline the concept of multi-layer clothing system. [K<sub>2</sub>]
24. How can we modify a fibre into high water absorbent fiber? Give an example. [K<sub>2</sub>]
25. Write short notes on radiation energy exchange between human skin/cloth and its environment. [K<sub>3</sub>]
26. Outline the importance of constructional parameters of fabric to clothing comfort. [K<sub>3</sub>]
27. How yarn structural characteristics influences on comfort properties of clothing? [K<sub>2</sub>]
28. Summarize fabric properties and fibres according to the end uses. [K<sub>3</sub>]
29. How fabric constructional parameters can affect comfort properties of clothing? [K<sub>3</sub>]
30. Explain guarded hot plate method. [K<sub>2</sub>]

**PART D (2 x 10 = 20 Marks)**

31. Explain in detail different methods to measure water vapor permeability of fabric. [K<sub>3</sub>]
32. Explain different methods to measure thermal resistance of clothing. [K<sub>3</sub>]

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