**The below questions are ONLY sample questions. The format of the exam will include: (Match the following, True or False, Choose the correct answer, 2 or 3 descriptive questions).**

1. Primary and secondary properties of textile fiber.
2. The static buildup in textiles.
3. Combination of techniques to determine the crystallinity in fibers.
4. Adsorption isotherm models
5. Absorption and Desorption Curves
6. Band theory of conductivity
7. Electrical conductivity and resistivity of Fiber
8. Moisture regain and moisture content
9. Factors affecting the fiber regain
10. Three electrical properties and their range.
11. How does Fibre absorbency and wicking affect the properties of a textile?
12. Resiliency of a fiber.
13. Influence of fibre fineness.
14. Influence of fiber absorbency on the properties of a textile.
15. Impact of tensile property on textile materials.
16. Influence of strength and other mechanical properties of materials.
17. Factors affecting the mechanical properties of polymers.
18. effect of amorphous and crystallinity
19. crystallinity and Tg
20. Characteristics of a surface
21. Thermal properties (Thermal conductivity and resistance)
22. Determination of thermal properties
23. Calculate %crystallinity
24. Breaking extension of fibers
25. Load elongation curve
26. Techniques for Crystalline, Semi-crystalline
27. Optical microscopy, Abrasion, Stelometer, DSC, TGA and XRD measurements
28. Extensibility in cellulosic fibers
29. Mechanical properties of man-made fibers (Fibrillar and micellar)
30. Density of fibers
31. Dimensional stability of man-made fibers
32. Elastic recovery of natural fibers
33. Unit of measurments