**ORAL EXAM QUESTIONS (PLEASE NOTE THAT THESE ARE ONLY SAMPLE QUESTIONS).**

1. Classifications of textile structures and their applications.
2. Technical textile classification and applications.
3. Development and current trends in yarn production technology. Effect of technology on yarn properties.
4. The general principle of cotton staple spun yarn production, methods of spinning. Principles of staple spun yarn production.
5. Yarn classification and basic differences between staple spun yarns and continuous filament yarns.
6. Basic properties of staple spun yarn, the influence of spinning technology and spinning methods on properties and structure of staple spun yarns.
7. Draw a scheme of the weaving machine and define the individual mechanisms of the weaving machine.
8. Define the shuttleless weaving principle. Then focus on describing the air-jet picking mechanism.
9. Define Jacquard fabric and describe the principle of the jacquard shedding mechanism.
10. Advanced techniques in the area of weft and warp knitted technologies (transferring needles, seamless technique, and comparison in warp and weft knitting technology.
11. Principle of production of spacer knitted structures used machines for both weft and warp technologies, the examples of product and purpose of their use.
12. Modern knitting techniques in weft and warp knitting technology (technology of production of a spacer knitted structures and their comparison in warp and weft knitting technology). New Trends of Knitted Textiles and Structures. Innovations in the field of technical knitted products.
13. What processes can be used in the pre-treatment of cotton? Describe the impact of these processes on the treated material.
14. "Color stability". Describe some methods of color fastness evaluation.
15. Special (modern, or hi-tech) methods of textile finishing?
16. Classification and applications of nonwoven
17. Explain spun bonding process (with a sketch), bonding methods, and common polymers.
18. What are the properties of spun-bond nonwovens? Please give some application area.
19. Please classify web bonding methods and explain each of them.
20. What are lay plan, marker making, and marker efficiency?
21. What are different feeding systems for sewing machine.
22. Unconventional sealing methods and application in clothing.