

19. Explain the knitting cycle of Single jersey knitting machine.

20. Explain the different types of Bonding method in nonwoven production.

S.No. 5374

16 SACFT 1

(For candidates admitted from 2016-2017 onwards)

B.Sc. DEGREE EXAMINATION, APRIL 2022.

Part III — Allied

TEXTILE SCIENCE

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20)

Answer ALL questions.

1. State the object of carding process.
2. Define the term "Textile fibre".
3. Differentiate filament yarn with spun yarn.
4. What is the use of electospinning?
5. State any two shedding devices.
6. What is importance of sizing?
7. Define the term "course" in knitting.
8. What do you mean by "Stitch" in knitting?

9. State any two web formation methods in nonwoven production.

10. What do you mean by "tightness factor" of the knitted fabric?

SECTION B — ($5 \times 5 = 25$)

Answer ALL questions, choosing either (a) or (b).

11. (a) Discuss about various objectives of drawing process.

Or

(b) Explain about the various combing cycle followed by a Comber machine.

12. (a) Briefly explain the technology of wet spinning.

Or

(b) Explain about the various friction spinning methods.

13. (a) Draw the design, rdraft and heald plan for Satin weave

Or

(b) Draw the sketch of claimax dobby.

14. (a) Compare the properties of woven fabric with knitted fabric.

Or

(b) Draw the Rib and Interlock knit structures.

15. (a) Briefly explain the uses of nonwoven fabrics.

Or

(b) Compare the warp knitting process with weft knitting.

SECTION C — ($3 \times 10 = 30$)

Answer any THREE questions.

16. With suitable diagram explain the passage of material through a Ring spinning machine.

17. Explain about the principles of O.E Spinning and also describe the working functions of rotor spinning machine.

18. Explain the working functions of Double lift double cylinder jacquard.