

19. (a) Describe the properties of single jersey fabrics.

Or

- (b) Write a note on fabric defects and their causes.
20. (a) Mention the types of bonding in nonwoven.

Or

- (b) Write a note on thermal bonded nonwoven.

SECTION C — ($3 \times 10 = 30$)

Answer any THREE questions.

21. Explain in detail about the classification of textile fibre.
22. Explain the various process involved ring spinning.
23. Explain twill weave and its derivatives.
24. Compare weaving and knitting.
25. Write a detail note on classification of nonwoven fabrics.

S.No. 8407

22 SACFT 1

(For candidates admitted from 2022–2023 onwards)

B.Sc. DEGREE EXAMINATION, NOVEMBER 2022.

Part III — Allied

TEXTILE SCIENCE

Time : Three hours

Maximum : 75 marks

SECTION A — (20 marks)

Answer ALL the questions.

- I. (A) Choose the correct answer ($5 \times 1 = 5$)
1. Which is a natural mineral fibre?
- (a) silk (b) nylon
- (c) asbestos (d) jute
2. Choose the process in which blending of slivers can be done
- (a) blowroom (b) carding
- (c) roving (d) drawing
3. _____ weaves are characterized by cell-like appearance with ridges and hollows
- (a) twill (b) satin
- (c) huck-a-back (d) honeycomb

4. Choose the type of needle used in purl knitting machine.
 (a) latch (b) spring beard
 (c) compound (d) complex
5. _____ web forming technique is similar to paper making technique.
 (a) felt (b) nonwoven
 (c) pile (d) double cloth
- (B) Fill in the blanks (5 × 1 = 5)
6. Jute fibre is separated from its plant by _____ process.
7. The process in which the lap is converted to sliver is _____
8. _____ weaves form diagonal lines from one selvage to another.
9. _____ is known as heart of knitting.
10. _____ is the oldest method of producing nonwoven products.
- II Descriptive type questions (5 × 2 = 10)
11. What is Cable yarn?
12. Write about Dry spinning method.

13. Mention the basic characteristics of a plain weave.
14. Define Rib knit.
15. What is Nonwoven?

SECTION B — (5 × 5 = 25)

Answer ALL the questions, choose either (a) or (b)

16. (a) Write a note on physical properties of wool.

Or

- (b) Write a note on properties of nylon fiber.

17. (a) Summarize the working principles of Combing.

Or

- (b) Write a note on the objectives of Blow room.

18. (a) Discuss about plain weave and its modifications.

Or

- (b) Explain the passage of material through a loom.