

S.No. 2564

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(For the candidates admitted from 2012-2013 onwards)

B.Sc. DEGREE EXAMINATION,
NOVEMBER/DECEMBER 2014.

First Semester

Textile and Fashion Designing

FIBRE AND YARN SCIENCE

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define textile fiber.
2. List the end uses of wool fiber.
3. What is melt spinning?
4. List the advantages of lycra fibers.
5. State the objectives of ginning.
6. What is cleaning efficiency?
7. What is roller drafting?

State the role of doffer in carding.

What are fancy yarns?

What is spun yarn?

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions.

(a) Write about the silk fibers.

Or

(b) Explain the physical and chemical properties of cotton fibers.

(a) Explain the manufacturing of polyester fibre.

Or

(b) Write about thermal resistant fibers.

(a) Explain the working principle of kniferoiler gin.

Or

(b) Discuss the working principle of axi-flow cleaner.

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14. (a)

Write about the functions of licke - in and cylinder in carding.

Or

(b) Write about comber preparatory processes.

15. (a)

Explain the functions of flyer with sketch in simplex machine.

Or

(b) Write about the sewing threads.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Discuss the classifications of textile fibres in detail.

17. Explain the formation of viscose fibres with suitable sketch.

18. Explain the lap forming unit in sketcher.

19. Discuss the cycle of operations in comber.

20. How to produce roving bobbin in simplex? Explain.