

**C-7291**

**Sub. Code**

**81511**

**DIPLOMA EXAMINATION, NOVEMBER 2025.**

**First Semester**

**Fashion and Apparel Designing**

**INTRODUCTION TO TEXTILES**

**(2023 onwards)**

Duration : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 1 = 10)

Answer **all** questions.

1. What is the primary characteristic of textile fibers?
  - (a) Tensile strength
  - (b) Softness
  - (c) Moisture absorption
  - (d) Elasticity
  
2. Choose a natural fiber
  - (a) Rayon
  - (b) Nylon
  - (c) Sisal
  - (d) Polyester
  
3. Which process is used to manufacture viscose rayon?
  - (a) Mechanical spinning
  - (b) Chemical spinning
  - (c) Blow molding
  - (d) Drawing

4. Which of the following is the principle ingredient in manufacture of polyester?  
(a) Methanol                      (b) Methyl  
(c) Ethylene                      (d) Acid
5. What does yarn twist affect?  
(a) Tensile strength      (b) Length of yarn  
(c) Elasticity                      (d) Fiber maturity
6. Which yarn type is not simple?  
(a) Core-spun yarn      (b) Single yarn  
(c) Ply yarn                      (d) Fancy yarn
7. Which shuttleless loom uses a small missile for weft insertion?  
(a) Air jet                      (b) Rapier  
(c) Projectile                      (d) Water jet
8. What is the essential function of a loom?  
(a) Spinning yarn      (b) Weaving fabric  
(c) Carding fibers      (d) Knitting fabric
9. What is a cause of fabric defects in knitting?  
(a) Improper tension      (b) Excessive twist  
(c) Loose carding      (d) Low fiber maturity
10. What is the primary raw material for nonwoven fabric?  
(a) Yarn                      (b) Fiber  
(c) Fabric                      (d) Thread

**Part B**

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Classify textile fibers.

Or

- (b) What are the secondary characteristics of a fiber?

12. (a) Discuss the uses of jute and sisal fibers.

Or

- (b) State the properties of wool fiber.

13. (a) Discuss about yarn count and twist.

Or

- (b) Differentiate between simple and fancy yarns.

14. (a) List and explain the components of a simple loom.

Or

- (b) Explain the process of weaving on a rapier loom.

15. (a) Explain the causes and remedies of knitting defects.

Or

- (b) Compare weft knitting and warp knitting.

**Part C**

(5 × 8 = 40)

Answer **all** questions, choosing either (a) or (b).

16. (a) Describe the primary characteristics of textile fibers.

Or

- (b) Compare the properties of man-made fibers and natural fibers.

17. (a) Explain the manufacturing process of viscose rayon

Or

(b) Discuss the properties and uses of Cotton.

18. (a) Elaborate on the chemical and mechanical spinning processes.

Or

(b) Outline the flow-chart of the ring spinning process and explain objectives of each process.

19. (a) Discuss the advancements in shuttleless weaving technologies.

Or

(b) Compare the basic weave structures.

20. (a) Describe the structure and applications of rib, purl, and interlock knits.

Or

(b) Explain the applications of nonwoven fabrics.