

I Semester B.Sc (FAD) Examination, October / November 2011
(N.S.) (Semester Scheme) (N.S) (Prior to 2011-12)
Fashion and Apparel Design
FAD103: FIBER AND YARN SCIENCE

Time :3 hours

Max. Marks:60

All Section are compulsory . illustrate wherever necessary.

SECTION - A

1. Answer the following:

- 1)fiber is similar in characteristics to wool.
- 2) is the only natural filamental fibre.
- 3) Illustrate cross sectional view of cotton.
- 4) What is polymerization.
- 5) What are thermoplastic fibers?
- 6) Which fiber is more absorbent cotton or polyester?
- 7) State two uses of flax?
- 8) Name the solvent that dissolves cotton?
- 9) Define crystallinity?
- 10) What is retting?
- 11) What is ginning?
- 12) What is absorption resistance?

SECTION - B

2. Answer the following:

- 1) Distinguish between carded and combed yarns?
- 2) Mention the types of silk and their uses?
- 3) Draw the longitudinal and cross sectional view of polyester and cotton fibers?
- 4) Explain the advantages of man made fibers over natural fiber?
- 5) Name any three physical properties of wool?
- 6) What are the objective of Blow room?

SECTION - C

3. Answer any six of the following:

- 1) What are the action of acids, alkalies and heat on cotton? Explain
- 2) What is texturisation ? mention the types and characteristics of textured yarns?
- 3) What are the objectives of carding . draw frame and ring frame?
- 4) Write the burning characteristics of polyester and wool , fiber , silk, viscose rayon
- 5) State the purpose of blending. Describe the factors to be considered in seletion of fibers for blends?
- 6) Explain the essential properties required for sewing threads
- 7) Write the uses of polypropylene, acrylic and hemp fibers?
- 8) Distinguish between ring spun and rotor spun yarns?