

**I Semester B.Sc (FAD) Examination, October / November 2011
(Old syllabus Scheme) (Prior to 2009-10)
Fashion and Apparel Design
FAD103: FIBER AND YARN SCIENCE**

Time :3 hours

Max. Marks:60

All Section are compulsory. illustrate wherever necessary.

SECTION - A

I. Answer the following :

- 1) Name any two animal fibers ?
- 2) What are polymers?
- 3) Draw cross sectional view of silk?
- 4) Define orientation?
- 5) What is hackling?
- 6) Mention two uses of nylon.
- 7) Name the solvent that dissolves polyester?
- 8) Draw the diagram of any fancy yarn mention its name.
- 9) What are bulk yarns?
- 10) Define denier?
- 11) Define Z- twisted yarn?
- 12) Define tenacity?

SECTION - B

II. Answer any following:

- 1) Write any three physical properties of cotton ?
- 2) Mention the burning characteristics of wool and nylon fibers?
- 3) Different between spun and filamental yarns?
- 4) What are elastomeric fibers? Write their uses?
- 5) Distinguish between crystalline and amorphous regions?
- 6) Different between woolen and worsted yarns?

SECTION - C

III. Answer six of the following:

- 1) Write the chemical properties of nylon?
- 2) State the differences between ring spun and rotor spun yarns?
- 3) Draw the sequences of processes required for spinning cotton yarn and briefly explain them?
- 4) Mention the properties of sewing threads and explain?
- 5) Discuss the different methods of texturisation?
- 6) Write the physical properties of wool?
- 7) Explain the types of polymers?
- 8) Distinguish between carded and combed yarns?

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