

Bachelor in Design (B.Des) Examination, 2017
Specialization in Textile & Clothing
Semester – VI
Paper – TC – VI/03
(Material & Process-II)

Time: Three Hours

Full Marks: 40

Questions are of value as indicated in the margin.

Question No. 1 is compulsory and attempt **any three (3)** from the rest

1. A. Fill up the blanks with appropriate word(s) (**any six**) 6

- a. _____ fibre is manufactured by Dry spinning
- b. PET polyester fibre is manufactured by _____ polymerisation
- c. _____ fibre is used to design swimming costumes
- d. The Degree of polymerisation in viscose fibre is about _____
- e. Acrylic fibre can be blended with _____ fibre
- f. _____ filament is used in handloom cotton sari border as extra warp
- g. The cross section of synthetic fibre is determined by _____

B. Arrange the following fibres in ascending order of their breaking elongation values: 4

Nylon 6.6, PET Polyester, Viscose, Acrylic

2. What is the repeating unit of Nylon 6.6 fibre? Write down the physical and chemical properties of Nylon fibre. 2+8=10

3. Why fancy yarns are used? Name any four fancy yarns suitable for designing fabrics in apparel and mention the technique of manufacturing of any one from them? 3+4+3=10

4. What is the difference between acrylic and modacrylic fibre? Why the acrylic fibre is used to design winter garments? Why its wet strength is lower than dry strength? 4+3+3=10

5. Write short notes on the followings: (**any two**) 2×5=10

a. Cotton Yarn in Hank form	b. Breaking load and tenacity of yarn
c. Drawing	e. Crystallinity in fibre

6. A yarn of 40^S N_e is doubled with another yarn of 60^S N_e count to give a fancy yarn. What will be the count of the fancy yarn in tex & cotton system? 10
