

Mansoura University		Second Year
Faculty of Engineering		Full mark : 100
Textile Engineering Department		Textile chemistry
Time: 3 hours	December,2012	course code:6211

Answer the following questions:

1- What do you know about polymer science and its reaction, Illustrate the type of polymer structure and its reaction. (20 marks)

2- Write a detailed account about the chemistry of cotton, Illustrate the action of acids, alkalis and oxidizing agent on its structure. (20 marks)

3- Illustrate the chemistry of animal fiber and its cross linking . Give spotlight about the action of chemicals. (20 marks)

4-Answer the following:

a) Preparation of polyacrylic fiber.

b) Preparation of polyester fiber.

c) Preparation of polyamide 6, 6.

Compare the action of heat between the above synthetic fibers. (20marks)

5-Write a detailed processes about the preparation of the following regenerated fibers.

a) Viscose

b) Diacetate

c) and Cellulose ether fibers.

Compare the physical and chemical properties of these fibers.

(20 marks)

With my best wishes
Prof. Dr. A.M.Elhosini