

Mansoura University  
Faculty of Engineering  
Textile Engineering Dept.

Textile Chemistry  
2<sup>nd</sup> Year  
Time: 3 hours

Answer the following questions:

1) Write briefly about

- a) Ionic polymerization and Free radical polymerization
- b) Cellulose and its chemical and physical properties. (30 marks)

2) Give a spot light about the structure of wool fiber and its chemical and physical properties. (20 marks)

3) Starting with Cabrolactam , Para-Zylen and Vinyl Cyanide.

How to prepare Nylon 6 , Polyester fiber and Polyacrylic ,

Illustrate the effect of H<sub>2</sub>O and heat temperature. (25 marks)

4) Give a detailed account about the preparation of the following regenerated fibers:

- a) Viscose rayon.
- b) Triacetete fibers
- c) Cellulose etherate.

(25 marks)

