

Introduction to Fibres
TTP211
Major Test (30.11.2006)

MM 50

Time 2h
10.30 am

Note: Attempt all questions.

1. Write flow chart of the viscose fibre production. Write the chemistry of Viscose rayon fibre preparation. 6
2. a. How would you detect sulfur in wool and nitrogen in nylon? 4
b. Draw stress-strain plot for cotton, rayon and wool. 2
3. a. A fibre sample is not affected by NaOH solution but partly dissolves in Xylene and the rest dissolves in formic acid. What does it indicate? 5
b. Draw surface structure of cotton, wool and PP. 5
4. a. What is the difference between cellulose acetate and cotton? Compare the moisture absorption of these fibres. Give reasons. 5
b. What is the Steeping Process? 5
5. a. How is insolubility in polyvinylalcohol created? 5
b. What is the flame test for polypropylene, wool and cotton? 5
5. Define following terms. 8
 - a. Resiliency
 - b. Crystallinity
 - c. Chryslid
 - d. Shrinkage