B. Tech.

(SEM. IV) EXAMINATION, 2006-07

CHEMISTRY & PRODUCTION OF FIBRES

Time : 3 Hours] [Total Marks : 100

Note : Attempt all questions.

1. Discuss the history of development of polyethylene terephthalate fibre. How the polymer produced by DMT and PTA route?

OR

1. Compare the prolycondensation reaction and polyaddition reaction of polymerization with suitable example.

2. Why the polyamide fibres are of different types? Discuss. Discuss the nylon polymer production by continedus polymerization.

OR

2. Explain the melt spinning extruder. Discuss the design of screw in single screw extruder with neat sketch.

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3. Describe the wet spinning process by taking suitable example.

   OR

3. Discuss the physical and chemical properties of polypropylene fibre.

4. Discuss the effect of process variables on fibre properties of dry-jet-wet spun fibre.

   OR

4. Discuss the dry-jet-wet spinning process with neat sketch.

5. Discuss the cuprammonium rayon fibre in detail.

   OR

5. Explain the formation of secrated edge cross-section of viscose rayon.