

Register Number: .....

**M.TECH. DEGREE EXAMINATIONS: JANUARY 2011**

First Semester

**TEXTILE TECHNOLOGY**

TTX601: Long Staple Spinning

**Time: Three Hours**

**Maximum Marks: 100**

**Answer ALL Questions: -  
PART A (10 x 2 = 20 Marks)**

1. Give the objectives of wool combing
2. What are methods of processing of flax and jute fibres?
3. What is hacking process?
4. What is worsted top finishing?
5. Give the production sequence for woollen spinning process
6. Give the importance of gilling of wool sliver.
7. How do you control the noils in combing of wool?
8. Give the role of doubling and autolevelling in long staple spinning
9. Write short note on mule spinning
10. What is centrifuge spinning?

**PART B (5 x 16 = 80 Marks)**

11. (a) Discuss in detail about the wool impurity removal by scouring and carbonization process  
(OR)  
(b) Describe the different types of blending of long staple fibres
12. (a) Explain the working principle of semi worsted carding with neat sketch  
(OR)  
(b) Explain the working of flax carding machine with neat sketch.
13. (a) Explain the operating principle of gill box process for wool with neat sketch  
(OR)  
(b) Discuss in detail about the jute and worsted drawing.
14. (a) Discuss in detail the principle involved in woollen roving production with neat sketch.  
(OR)  
(b) (i) Give an account of theory of long fibre drafting  
(ii) Explain in detail about the irregularities of drafting
15. (a) Discuss in detail about the principle of friction spinning process with neat sketch.  
(OR)  
(b) Discuss in detail about the characteristics of long staple yarn and compare it with short staple yarn characteristics.

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