



Name :

Roll No. :

Invigilator's Signature :

**CS/M.Tech(TT)/SEM-1/MTT-105/2010-11
2010-11**

THEORY & DESIGN OF SPINNING MACHINERIES

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

Answer any *five* of the following.

1. a) Discuss about the basic parameters to be considered in blowroom process. 8
- b) What are the points to be considered for fine cleaning of cotton in blowroom ? 6
2. Give a critical review on the mechanism of fibre transfer between component parts of the card. 14
3. Discuss critically about selection and optimization of process parameters in carding to produce a good quality yarn with lower manufacturing cost. 14
4. Discuss about the developments made over the yarn in the drafting zone in ring frame. 14



5. Discuss about the developments in the rign-traveller zone of ring frame. 14
6. a) Explain the mechanism of compact spinning. 4
- b) Discuss about different types of compact spinning systems developed by different manufacturers. 10
7. Discuss in brief about the recent developments in rotor spinning. 14
8. Give comparative estimate about the economy in ring, rotor and airjet spinning systems. 14
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