## TTL722 MECHANICS OF SPINNING PROCESS

MAJOR II Date: 01/12/2006 (Friday); 8.00-10.00 AM; Venue: TX120

- 1) What is the mechanism and role of false twist on production of in roving?
- 2) Compare the forward and backward movement of flats.
- 3) How do trailing and leading hooks (both without reversal) form during fibre transfer in earding machine?
- 4) Discuss the design approaches adapted in designing ring and travelers.
- 5) What is the role of nozzles in air-jet spinning in delaying fibre arrival and imparting false twist to yarn?
- 6): Prove that Balloon tension is  $\mu_{RT}M_TR\omega^{-}\tau^{-}kSin\alpha^{-}$ . The notations are:  $\mu_{RT}$ ,  $M_T$ , R,  $\omega_T$ , k and  $\alpha$  are Ring-traveller coefficient of friction, Traveller mass, Ring diameter, Traveller rotational speed, Ratio of winding and balloon tensions, and Winding angle respectively.
- 1) (45 marks) mechanism and enter at fater west on protons of the motion
- [27] Chargere the feature forms become a consequence of

25.512 m. done.