

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- IVth SEMESTER-EXAMINATION – MAY/JUNE- 2012****Subject code: 142901****Date: 23/05/2012****Subject Name: Yarn Manufacturing - II****Time: 10:30 am – 01:00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Discuss briefly following problems with reference to Draw frame : **07**
(i) Drafting wave (ii) Roller slippage
- (b) Describe Combing Cycle of any comber with suitable diagrams. **07**
- Q.2** (a) Explain why Even numbers of Passages are always used between Card and **07**
Comber.
- (b) Discuss the various developments that have taken place in loading **07**
arrangement of Draw Frame.
- OR**
- (b) Explain Ideal Theory of Drafting briefly with neat sketch. **07**
- Q.3** (a) What is the role of Autoleveller at Draw Frame? **07**
Describe different types of Autolevellers briefly.
- (b) Describe Super Lap former with neat sketch. **07**
- OR**
- Q.3** (a) Describe features of Modern Draw frame. **07**
- (b) Describe Differential motion at Speed frame briefly with neat sketch. **07**
- Q.4** (a) Describe various types of gauges used for settings at Comber with neat **07**
sketch.
- (b) Describe Any Two settings of Comber. **07**
- OR**
- Q.4** (a) Explain Forward feed comber briefly. **07**
- (b) Calculate Production of Comber from Following data : **07**
Feed/nip – 10 mm
Nips/min – 300
Efficiency – 85%
Length of Lap – 200 yards
Weight of Lap – 6750 gms
Noil % - 12 %
- Q.5** (a) Explain Flyer lead and Bobbin Lead machines briefly with its merit and **07**
demerits.
- (b) Discuss the Objects of Speed frame. **07**
Also explain necessity of Speed frame in Spinning line.
- OR**
- Q.5** (a) Discuss the objects of Builder Mechanism on speed Frame. **07**
Only Draw diagram of American Builder.
- (b) Describe important features of Modern Speed Frame. **07**
