

GUJARAT TECHNOLOGICAL UNIVERSITY**B.E. Sem-III Regular / Remedial Examination December 2010****Subject code: 132902****Subject Name: Yarn Manufacturing - I****Date: 13 /12 / 2010****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) Describe the construction and working of any one Ginning machine. **07**
 (b) Describe the construction and working of hopper bale opener with suitable diagram. **07**

- Q.2** (a) What is autoleveller? Explain close loop and open loop principle in autoleveller with neat sketch. **07**
 (b) Discuss different features of modern cards. **07**

OR

- (b) What is stripping of card clothing and state its importance. List out the developments in stripping system. **07**
 Explain any one development with neat sketch.

- Q.3** (a) How precarding action is improved on modern card? Explain any two modification in licker-in region with neat sketch. **07**
 (b) State the objects of card. Also state the importance of card setting and factors affecting card settings. **07**

OR

- Q.3** (a) Give the classification of Chute feed system. Hence explain any one chute feed system with neat sketch. **07**
 (b) Discuss metallic card clothing on card. **04**
 (c) Write the formulae to calculate production of card in lbs/shift. Also, give the formulae to find mechanical draft and actual draft on card. **03**

- Q.4** (a) Describe working of any one cleaner with neat sketch. **07**
 (b) Describe the advantages of Automatic bale opener. **07**

OR

- Q.4** (a) Describe construction and working of any Mixing machine with neat sketch. **07**
 (b) Describe the Piano Feed Regulating mechanism on Scutcher to control evenness of lap briefly. **07**

- Q.5** (a) Discuss the various factors to be considered while processing manmade fibers in blow room. **07**
 (b) Discuss different types of waste at card in detail. **07**

OR

- Q.5** (a) State the lap defects and its remedial measures at blow room. **07**
 (b) Explain with neat sketch " Tongue and groove type roller" and " Active Pneumatic trumpet" for measuring variations on autoleveller. **07**
