

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE - SEMESTER-III • EXAMINATION – WINTER 2014**

**Subject Code: 132902****Date:20-12- 2014****Subject Name: Yarn Manufacturing - I****Time:02.30 pm - 05.00 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 Roller Ginning machine. **07**  
 (b) With a neat sketch explain construction and working of Hopper Bale Opener. **07**
- Q.2** (a) Enlist the objects of card and Explain Tandem card with neat sketch. **07**  
 (b) Explain working of Step Cleaner with neat sketch. **07**
- OR**
- (b) Write short note on “Chute feed system” **07**
- Q.3** (a) Explain the Piano feed mechanism at Scutcher of Blow room with a neat sketch. **07**  
 (b) Explain working of Vertical Opener with neat sketch. **07**
- OR**
- Q.3** (a) What are the objectives of Blow room? State the sequence in which the machines are arranged in Blow room. Explain the factors influencing the opening and cleaning. **07**  
 (b) Explain Multimixer briefly. **07**
- Q.4** (a) Explain stripping and carding action in card with suitable figure and it is depends on which factors. **07**  
 (b) Write short note on “Card setting” **07**
- OR**
- Q.4** (a) What is card clothing? Explain flexible card clothing in brief. **07**  
 (b) Discuss the important modifications made at feeding device and licker-in region of a modern card. **07**
- Q.5** (a) Describe briefly how lap is formed on Scutcher along with important stages of Automatic lap doffing. **07**  
 (b) Describe various Lap defects and discuss remedial measures for the same. **07**
- OR**
- Q.5** (a) What is importance of grinding for card clothing? Hence explain any one type of grinding roller with neat sketch. **07**  
 (b) What is Autoleveller? Explain close loop principle in Autoleveller with neat sketch. **07**

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