

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-III (OLD) EXAMINATION – WINTER 2017****Subject Code:132902****Date:17/11/2017****Subject Name: Yarn Manufacturing-I****Time: 10:30 AM to 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 Explain how the objectives of Ginning of fibres are accomplished and discuss the concept of bailing. **14**

Q.2 (a) Explain the working of a modern card with a neat sketch. **07**

(b) Discuss in detail the objectives of Blowroom. **07**

OR

(b) Explain the working of any one machine of any one zone with a neat sketch. **07**

Q.3 (a) Explain the processing of Man-made fibres at Blowroom. **07**

(b) Explain the concept of mixing and blending at the Spinning department. **07**

OR

Q.3 (a) Write a short note on feed device and opening device employed at Blowroom. **07**

(b) Explain the factors affecting the quality of fibres obtained after the Blowroom operation. **07**

Q.4 (a) Discuss the different types of Grinding of wire points at Carding machine. **07**

(b) Write a short note on Tandom carding. **07**

OR

Q.4 (a) State the card settings for cotton and polyester and discuss their effect on carding quality and waste generated. **07**

(b) Derive the formula for calculation of production at Blowroom and Card. **07**

Q.5 (a) Write a short note on Autolevellers used in Carding machine. **07**



OR

Q.5 (a) Explain the working of chute feed system. **07**

(b) Write on the modern developments in Carding machine. **07**

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