

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V- EXAMINATION – SUMMER 2016****Subject Code: 152901****Date: 19/05/2016****Subject Name: Yarn Manufacturing - III****Time: 02:30 PM to 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) Discuss in brief Reverse Warp Wind. **07**
(b) Discuss significance of Top roller cots. **07**
- Q.2** (a) Define the terms : i. Traveller count **04**
ii. Centre of gravity
(b) Describe the method of ring manufacture. **10**
- OR**
- (b) Discuss the advantages of Spheropoint over conventional footstep bearing. **10**
- Q.3** (a) Discuss in brief about Tangential belt drive. **07**
(b) Explain in brief preparation for doff with neat sketches. **07**
- OR**
- Q.3** (a) Discuss the points to be considered before selecting traveller profile. **07**
(b) Discuss Ring data system for spinning. **07**
- Q.4** (a) Describe the construction of the spindle assembly of ring frame showing different parts and give their functions. **10**
(b) What is the basic aim of Doubling? **04**
- OR**
- Q.4** (a) Define the terms: Cabled yarn & Ply yarn. **06**
(b) Explain the threading arrangement with a neat sketch of Modified Stock-port system. **08**
- Q.5** (a) Write in brief about Loop yarn and Slub yarn. **07**
(b) Discuss in brief about reducing end breakages in Doubling. **07**
- OR**
- Q.5** (a) Explain in brief Two-for-one system of twisting. **07**
(b) Discuss manufacture of Two-colour spot yarn. **07**
