**Seat No.: _____** **Enrolment No._____**

# GUJARAT TECHNOLOGICAL UNIVERSITY

**BE - SEMESTER–III (OLD) - EXAMINATION – SUMMER 2017**

**Subject Code: 132903** **Date: 05/06/2017**

**Subject Name: Weaving-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.**

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|---|---|---|---|
| **Q.1** | **(a)** | Give classification of looms and explain loom timing diagram. | 07 |
| | **(b)** | State the objects of winding process. What winding should not do? | 07 |
| **Q.2** | **(a)** | Explain the concept of rewound weft. | 07 |
| | **(b)** | Give construction and working of cone under pick mechanism. | 07 |
| | | **OR** | |
| | **(b)** | Explain construction and working of cone over pick mechanism. . | 07 |
| **Q.3** | **(a)** | Draw a neat sketch for passage of warp yarn through the loom. | 07 |
| | **(b)** | State the objects of tensioner. Explain Gate type tensioner in detail. | 07 |
| | | **OR** | |
| **Q.3** | **(a)** | Explain the construction & working of 7 wheel take-up motion. | 07 |
| | **(b)** | Discuss in detail about different types of rotary traverse. | 07 |
| **Q.4** | **(a)** | Write a note on the function of Reed, Back rest & Temple on loom. | 07 |
| | **(b)** | State the objects of slub cather, explain photo-electric clearer in detail. | 07 |
| | | **OR** | |
| **Q.4** | | Discuss in detail about types of sheds. Give some brief idea of types of healds. | 14 |
| **Q.5** | | What are the objects of let-off motion? Explain construction & working of negative let-off mechanism with a neat diagram. Give it's demerits. | 14 |
| | | **OR** | |
| **Q.5** | | State the objects of warp protector mechanism. Give construction & working of Loose reed motion with a neat sketch along with it's merits and demerits. | 14 |

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