

GUJARAT TECHNOLOGICAL UNIVERSITY**B.E. Sem-III(Textile Technology)Examination December 2009****Subject code:132903****Subject Name: Weaving-I****Date: 21 /12 /2009****Time: 11.00 am – 1.30 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) State the objects of Winding process. What winding should not do? **07**
(b) Draw a neat sketch for passage of yarn through the loom, also give the loom Timings. **07**

- Q.2** (a) Discuss in detail about the different yarn tensioning devices. **07**
(b) How one can evaluate the winding performance? Which are the factors affecting warp breaks due to knot? **07**

OR

- (b) Explain broken thread stop motion at winding machine with a neat sketch **07**

- Q.3** (a) Describe the different types of Shed formation with a neat diagram. **07**
(b) Define: Warp, Weft & Selvedge.Explain the term “Heald Draft”. **07**

OR

- Q.3** (a) Explain the function of Reed,Back rest & Temple. What it means by Negative and Positive Shedding? **07**
(b) Discuss about the different types of Healds with their merits & demerits. **07**

- Q.4** (a) How the Photo-Electric clearer detects the yarn break? **07**
(b) Explain the construction & working of cone under-pick motion with a neat diagram. **07**

OR

- Q.4** (a) Describe about Capacitance type yarn clearer with a neat diagram. **07**
(b) Give the construction & working of cone over-pick motion(with diagram). **07**

- Q.5** (a) State the objects of Warp Let-off motion. Only draw a neat sketch of Let-off motion with compound lever, give the function of Let-off lever. **07**
(b) What are the objects of Warp Protector motion? Mention its types alongwith their functions. **07**

OR

- Q.5** (a) State the objects of Take-up motion. Give its classification. Only draw a neat sketch of SevenWheel take- up motion. **07**
(b) Discuss in detail about the Side weft-fork motion with a neat diagram. **07**
