

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE SEM-VII Examination-Nov/Dec.-2011

Subject code: 172902

Date: 19/11/2011

Subject Name: Modern Weaving Technology

Time: 10.30 am-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 (a) State the importance of weft accumulators. With the help of neat diagrams, explain the working of weft accumulator. 07

(b) Explain the confusor system on air-jet loom. 07

Q.2 (a) Give classification of rapier looms. With the help of neat diagram, explain the method of weft insertion of Flexible Double Rapier Loop Transfer type of loom. 07

(b) With the help of neat diagram, explain Torsion Bar Picking mechanism of Projectile Loom. 07

OR

(b) With the help of neat diagram, explain different phases of circulation of gripper in Projectile Loom. 07

Q.3 (a) State the importance of selvages. Explain, in detail, different types of selvages formed on shuttleless looms. 07

(b) State the requirements for weft supply packages to be used on shuttleless looms. With the help of neat diagrams, explain different types of weft supply packages to be used on shuttleless looms. 07

OR

Q.3 (a) Give classification of Multi Phase Loom. With the help of neat diagram, explain the shedding mechanism of Multi Phase Loom. 07

(b) State the limitations of shuttle looms. Also, state the requisites for installation of shuttleless looms. 07

Q.4 (a) Explain the water-jet pump of water-jet loom. 07

(b) Explain the DRYING systems on water-jet looms. 07

OR

Q.4 (a) Explain the relay-jet system on air-jet looms. 07

(b) Explain the compressor house for air-jet looms. 07

Q.5 (a) Explain the passage of yarn through the air-jet loom. 07

(b) Explain the MODERN DEVELOPMENTS on air-jet looms. 07

OR

Q.5 (a) State and explain the features of modern waterjet looms. Also, state the advantages and problems. 07

(b) With the help of neat diagrams, explain the mechanisms for driving the rapier heads on Flexible Rapier loom. 07
