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**JAYA GROUP OF INSTITUTIONS –THIRUNINRAVUR**

**4<sup>TH</sup> SEM SEM-B.E/B.Tech**

**INTERNAL ASSESMENT-2 (MODEL EXAMINATION –II)**

Subject Name: Technology of Woven Fabric Manufacture

Date : 11/03/2015

Subject Code : TT 6404

Branch: Textiles

Duration : 180 Minutes

Max.Marks:100

**Part A (10X2=20) Answer all the Questions:**

**Part A (10 X 2 = 20)**

1. State the types of filling insertion.
2. State the functional requirements of weft accumulators.
3. What do you understand by multiphase loom?
4. What do you mean by kinematics of sley?
5. How will you alter the density of pick in a fabric?
6. State the purpose of multiple box motion.
7. State the importance of selvedge in fabric. Furnish its types.
8. What type of fabric require pick at will motion?
9. Does shuttle loom require thread cutter? Justify your answer.
10. Give the classification of feelers utilized for pirn changing motion.

**Part B (5 X 16 = 80)**

11. (a) Explain the working of a cone underpick mechanism and give its advantages over overpick mechanism.

OR

- (b) Discuss in details about airjet weaving machines with neat diagram.

12. (a) Explain with neat sketch the rapier driving mechanisms.

OR

- (b) Elaborate in detail the mechanism of weft insertion and selvedge formation in projectile looms.

13. (a) Describe the construction of beat-up mechanism used in shuttleless weaving machine.

OR

(b) Describe the working of electrical warp stop motion with diagram.

14. (a) Explain the working of the following:

- i. Multiple box motion (4)
- ii. Short note on types of weft feelers (4)
- iii. fast reed mechanisms with diagram. (8)

OR

(b) Explain the mechanism of a three-try motion with a neat sketch.

15. (a) Explain either pirn or shuttle changing mechanism.

OR

(b) Explain with neat sketch working principle of seven wheel take up motions.