

**B. TECH.**  
**(SEM IV) THEORY EXAMINATION 2018-19**  
**FABRIC TECHNOLOGY II**

**Total Marks: 70**

**Time: 3 Hours**

**Note:** Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A**

**2 x 7 = 14**

**1. Attempt all questions in brief.**

- a. Classify loom motions in a flow chart.
- b. Show the drive of a loom from motor to auxiliary shaft.
- c. A weave design is composed of 30 ends and 30 picks. What shedding mechanism should one choose and why?
- d. Name the parts of jacquard which help in selection of warp?
- e. What are the disadvantages of modern weaving loom?
- f. What is the mechanism to change the color of weft yarn?
- g. Name four unconventional selvages.

**SECTION B**

**7 x 3 = 21**

**2. Attempt any three of the following:**

- a. Draw with labeling the schematic diagram of a negative tappet shedding motion and describe the working principle.
- b. Describe cam beat up mechanism with appropriate diagram.
- c. Prove that, the throw of tappet of back heald is more than throw of tappet of front heald. Give reason of this fact.
- d. Derive the expression of power of picking.
- e. In a negative let off motion, a weaver's beam is provided with weights of 200N at each end. The leverage of the system (the x/y ratio) is 4. The radius of the full beam is 25 cm and that of the ruffle is 7 cm. If the ropes are given one and a half round the ruffles and the coefficient of friction is 0.15, determine the warp tension at the slipping point.

**SECTION C**

**3. Attempt any one part of the following:**

**7 x 1 = 7**

- (a) Describe various shuttle checking device with neat sketch.
- (b) Describe the working principle of double lift double cylinder jacquard.

**4. Attempt any one part of the following:**

**7 x 1 = 7**

- (a) Describe the working principle of climax dobby.
- (b) Describe 7 wheel take up motion with diagram.

**5. Attempt any one part of the following:**

**7 x 1 = 7**

- (a) Describe projectile picking motion in various steps with diagram
- (b) Describe Gabler system.

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6. Attempt any *one* part of the following: 7 x 1 = 7
- (a) What is the difference between air jet and water jet picking system? Describe air jet picking system.
  - (b) Give short note on the following topics with relevant diagram. I) Main nozzle of air jet; II) Relay nozzle; III) Confusor <http://www.aktuonline.com>
7. Attempt any *one* part of the following: 7 x 1 = 7
- (a) Describe side wett fork mechanism.
  - (b) Describe fast reed warp protector mechanism with diagram.

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