Printed Pages: 02 **Sub Code: ECT402**

Paper Id: 164405 **Roll No.** | | | | | | | | | | |

B.TECH IN CARPET AND TEXTILE TECHNOLOGY
(SEM IV) THEORY EXAMINATION 2017-18
FABRIC MANUFACTURE – II

Time: 3 Hours ***Total Marks: 100***

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. **2 x 10 = 20**

a. What are the advantages of automatic loom?
b. What are differences between tappet shedding and dobby shedding?
c. Name various dobby faults.
d. What is pick at will motion?
e. What is the objective of warp protector mechanism?
f. State the objective of warp stop motion.
g. Compare loose reed and fast reed mechanism.
h. What is the objective of weft stop motion?
i. What is the objective of take up motion?
j. What is temple?

SECTION B

2. Attempt any *three* of the following: **10 x 3 = 30**

a. What are the features of automatic loom?
b. Derive the expression for power of picking.
c. Describe climax dobby.
d. Describe drop box mechanism for 4x1 loom.
e. Describe loose reed mechanism.

SECTION C

3. Attempt any *one* part of the following: **10 x 1 = 10**

(a) Describe fast reed mechanism.
(b) Describe mechanical warp stop motion.

4. Attempt any *one* part of the following: **10 x 1 = 10**

(a) Describe electromechanical warp stop motion.
(b) Explain side weft fork motion with neat diagram.

5. Attempt any *one* part of the following: **10 x 1 = 10**

(a) Describe centre weft fork motion with diagram.
(b) Write down the principle of operation of electric weft stop motion.

6. **Attempt any *one* part of the following:** **10 x 1 = 10**

(a) Briefly describe 7 wheel take up motion.
(b) Describe negative let off motion

7. **Attempt any *one* part of the following:** **10 x 1 = 10**

(a) Describe 5 wheel take up motion.
(b) State various temples with diagram.