

(Following paper code and roll no. to be filled in your answer book)

Paper code: 164607

Roll No.

|  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|

## B TECH

**(SEM. VI) THEORY EXAMINATION 2013-14  
FABRIC MANUFACTURE III**

TIME: 3 Hours

Total Marks:100

Note: (1) Attempt all questions.

(2) All questions carry equal marks.

1. Attempt any Two parts: (10 X 2= 20)

- Name the different unconventional picking systems. Draw the graphical representation of comparative velocity of weft in different unconventional weaving machine. What are the disadvantages of shuttle looms and shuttle less looms?
- Name different unconventional selvages. Draw figure of different selvages.
- What is the role of weft accumulators and weft measuring system in a weaving machine?

2. Attempt any Two parts: (10 X 2= 20)

- What is jacquard system? How is it different from Tappet and Dobby? What are the different types of jacquard?
- Write down the principle and construction of a single lift single cylinder jacquard.
- Write down the principle and construction of a double lift double cylinder jacquard.

3. Attempt any Two parts: (10 X 2= 20)

- Classify rapier weaving machine.
- Describe gablar system
- Describe principle of telescopic rapier.

4. Attempt any Two parts: (10 X 2= 20)

- Write down the main features of projectile weaving machine.
- Describe projectile picking mechanism.
- Describe cam beat up mechanism.

5. Make any four of the following designs with drafting and peg plan (10 X 2= 20)

- Write down the assumptions for deriving the geometry of plain cloth. Show  $d_1$ ,  $d_2$ ,  $p_2$ ,  $h_1$ ,  $h_2$ ,  $D$  and  $l_1$  in a figure.
- Derive the expressions and schematic representation when weft yarns are straight and rep yarns are jammed.
- Describe working principle of any air jet picking system.