

(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID : 160422

Roll No.

**B.TECH.**

**Theory Examination (Semester-IV) 2015-16**

**FABRIC TECHNOLOGY-II**

*Time : 3 Hours*

*Max. Marks : 100*

**Section-A**

**Note: Attempt all questions.**

**(10×2=20)**

- Q1.** (a) Define – Warp, Weft, Selvedge and fell of cloth.
- (b) What are primary motions of a loom , why these are known as primary motions ?
- (c) Through handloom-jacquard which type of shed is formed,explain .
- (d) What do you mean by dividend of five wheel take-up motion ? Discuss its importance.
- (e) Give gear plan of a tappet powerloom producing five ends satin.

- (f) Sketch the shuttle or pirn of any Pirn changing loom and mention its features.
- (g) Sketch drop wires ,which are being used on automatic loom, also mention its utility.
- (h) Why weft patterning is done through different dyed yarn in even number of picks on drop-box loom ?
- (i) Discuss the factors which effect repeat size through a jacquard.
- (j) A loom is running at 300 rpm with 300 ends/dm and 240 picks/dm. Find out production per 8 hours at 90% efficiency.

**Section-B**

**Q2. Attempt any five questions. (5×10=50)**

- (a) Define dwell of tappet and self-threaded shuttle.
- (b) Discuss the merit of jacquard shedding over doobby shedding, support your answer with examples.
- (c) Discuss the necessity of weft stop motion and weft feeler motion on any shuttle changing automatic loom.

- (d) Discuss various fabric defects in brief with their causes and remedies.
- (e) How reed fastness is achieved on a power loom, equipped with loose-reed motion ? How smashes are controlled on this type of loom ?
- (f) Describe picking mechanism of any projectile loom.
- (g) What is snap efficiency of a loom-shed? How will you find it out ?
- (h) What is terry motion ? What do you mean by 3-pick and 5-pick terry ?

**Section-C**

**Note: Attempt any two questions. (2×15=30)**

- Q3. A 16 Jack double lift dobby is fitted with 8 heald frames and drafting order is pointed, the pattern lattice is having 10 legs, find out the repeat size in ends and picks.
- Q4. A double lift double cylinder jacquard having 200 figuring capacity fitted with 40s stock port reed and 400 pattern cards, weaving a tapestry fabric with 40 pick per inch, find out the repeat size in inches.
- Q5. Classify various types of powerloom. Explain weft replenishment mechanism of any pirn changing loom.

