

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

Paper ID : 164412

Roll No.

B.TECH.

Theory Examination (Semester-IV) 2015-16

FABRIC MANUFACTURE-II

Time : 3 Hours

Max. Marks : 100

Section-A

Q1. Attempt all questions. All questions carry equal marks. Write answer of each part in short. (10×2=20)

- (a) What is automatic loom?
- (b) What is handloom?
- (c) What is auxiliary shaft?
- (d) Define over pick and under pick.
- (e) What is rocking shaft?

UPTU NOTES

- (f) Write down the function of swell and swell spring?
- (g) What are the parts of picking cam?
- (h) What is early shedding?
- (i) What is loose reed mechanism?
- (j) What is centre weft fork motion?

Section-B

Q2. Attempt any five questions from this section.

(5×10=50)

- (a) Name different types of loom. Draw with labeling the schematic diagram of a tappet shedding motion and describe the working principle. 2+8
- (b) What is heald staggering and asymmetric shedding? What are different techniques of heald reversing in a negative shedding motion? 5+5
- (c) Name different loom motions in a flow chart. Describe 4 different shed formations with diagram. 2+8

- (d) Draw the various types of drop pins. Write down the working principle of mechanical warp stop motion. 2+8
- (e) Define term jack missing in a dobbie. Briefly describe the cause and remedies of jack missing. 2+8
- (f) Describe semi positive let off motion. 10
- (g) Classify take up motion. Write down the working principle of 5 wheel take up motion. 10
- (h) What is the objective of beat up motion? Draw the schematic diagram of a crank beat up mechanism. 2+8

Section-C

Attempt any two questions from this section.

(2×15=30)

- Q3. What is throw of tappet? Prove that the throw of tappet, connected with back heald shaft, is higher than the throw of tappet, connected with front heald shaft. Assume any practical data. 15

Q4. What are conventional and unconventional picking systems?
What are the advantages and disadvantages of both systems?
Describe the picking action in a loom timing diagram.

3+5+7

Q5. Classify drop box motion. Describe the working of Eccle's
drop box motion.

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