

Q5. Attempt any *two* questions from the following: 10x2=20

- (a) Classify the drop box motion. Describe pick at will mechanism. 2+8
- (b) What is the function of temples? Describe with figure the various temples. 2+8
- (c) What is the difference between side - weft fork and centre - weft fork motion? Describe any one with schematic diagram. 2+8

Printed Pages : 4



NCT403

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

PAPER ID : 164412

Roll No.

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BTECH
(SEM. IV) THEORY EXAM. 2014-15
FABRIC MANUFACTURE-II

Time : 3 Hours]

[Total Marks : 100

Note : Attempt all the questions as indicated.

Q1. Attempt any *two* questions from the following : 10x2=20

- (a) Name different types of loom. Draw with labeling the schematic diagram of a tiappet shedding motion. 2+8
- (b) What are heald staggering and asymmetric shedding? What are the different techniques of heald reversing in a negative shedding motion? 5+5

(c) What is the positive shedding motion? Describe with a neat sketch. 10

Q2. Attempt any *two* questions of the following: 10x2=20

(a) What are the conventional and the unconventional picking systems? What are the disadvantages of both the systems? Describe the picking action in a loom timing diagram. 3+3+4

(b) Derive the expressions for shuttle speed and power of picking. 10

(c) Describe the working of cone underpick mechanism with a neat sketch. 10

Q3. Attempt any *two* questions from the following: 10x2=20

(a) What is the objective of beat - up motion? Draw the schematic diagram of a crank beat - up mechanism. 2+8

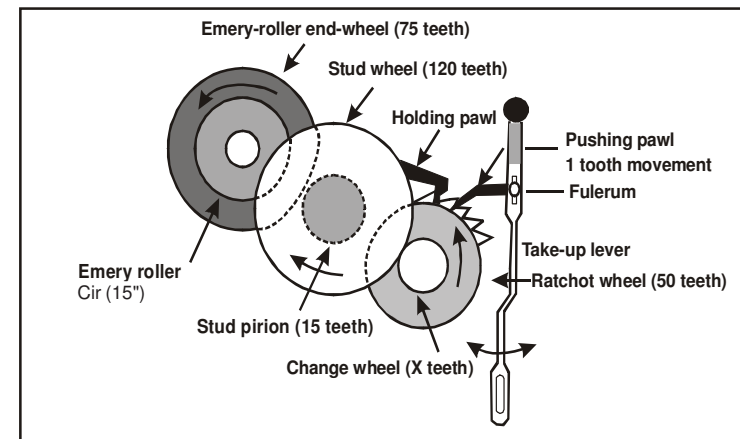
(b) What is sley eccentricity? Describe its effect on fabric properties. 10

(c) Mention the advantages of shedding system of dobby over tappet. Classify dobbies. State the principle of a climax dobby. 3+2+5

Q4. Attempt any *two* questions from the following: 10x2=20

(a) Classify the take - up motion. Write down the working principle of 7 wheel take - up motion. 10

(b) Find out the change wheel number to get picks per inch of 50 for the following gearing arrangement. 10



(c) What is the objective of let - off motion? Describe the negative let - off motion. 2+8