

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF TEXTILE TECHNOLOGY

END OF SEMESTER EXAMINATIONS AUGUST 2009

TXT 2208 – WEAVING TECHNOLOGY II

TIME: 3 HOURS

INSTRUCTIONS

Answer **ALL** Questions in Section A and **ANY TWO** in Section B.

SECTION A CARRIES AND SECTION B

SECTION A

QUESTION 1

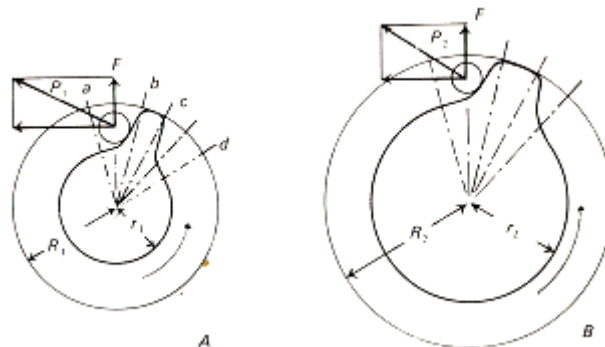
With the help of diagrams explain the full cycle of operations in dobby with negative shedding. (10)

QUESTION 2

Show a card cutting instruction for any weave of your choice. Explain your design. (10)

QUESTION 3

Explain the figure below. (8)

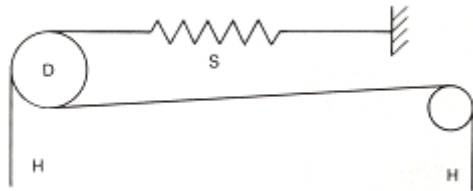


QUESTION 4

Design a cam system to enable an effect size repeat and its limitation. Give reasons for your design. (10)

QUESTION 5

With the aid of diagrams, explain the method of pegging lags for the Keighley Dobby machine in which a 2/2/1/2 twill is obtained. (8)



QUESTION 6

- (a) Develop a card-cutting instruction for a 5/1 satin structure. Show the tying of harness. (10)
- (b) Why is the figure below referred to as hypothetical mechanisms. How can it be corrected to a practical one? (8)

SECTION B

QUESTION 7

Describe how the weft is successfully selection in rapier systems. (25)

QUESTION 8

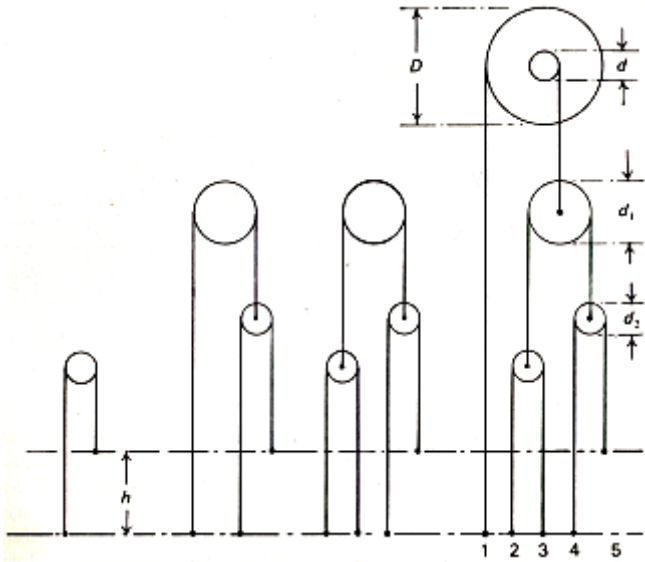
Prepare a weaving instruction for a fabric with both warp and weft patterning. Show the colour mixing and proper choice of machine and correct devices to be used. Explain your choice. (25)

QUESTION 9

- (a) Given an order of 200 pieces of 2,5m long 1,5m wide twill woven fabric describe how to develop the product from time of receipt of a fabric swatch to its dispatch to the client. (15)

(b) Explain the figure below?

(10)



END OF QUESTION PAPER