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