THIS EXAM WILL BE OUT OF 100%. IT WILL BE DIVIDED INTO TWO SECTIONS. SECTION A (60 MARKS) WILL BE ON KNITTING THEORY AND SECTION B (40 MARKS) WHICH WILL BE A TAKE A WAY ASSESSMENT, WILL BE PRACTICAL.

TIME – SECTION A: 2 HOURS

SECTION B: DUE IN 1 WEEK

SECTION A

1. Briefly discuss what you understand by the following terms **(20 Marks)**
   a. Knitting
   b. Stitch density
   c. Sinker
   d. Knitting cams
   e. A wale

2. Discuss the following stitch types **(10 Marks)**
   a. Tuck stitch
   b. Miss/ float stich
   c. Face loop stitch
   d. Reverse loop stitch
   e. The drop or press-off stitch

3. Discuss the following fabric types **(10 Marks)**
   a. Selvedged fabric
   b. Cut edge fabric
   c. Tubular fabric

4. Productivity (P) is expressed in pattern rows per minute. Putting into considerations the number of camshaft revolutions per minute (R) and machine efficiency (E) for warp knitting and the number of active yarns feed (F) and the number of machine revolutions per minute (R) and the number of courses or colors which comprise in one pattern row (C) for weft knitting, formulate an expression for both the warp and weft knitting types. **(20 Marks)**

SECTION B

CHOOSE **ONE** OF THE TWO PROBLEMS BELOW

1. Pick any of the stitching types that we have learned and use it as your method of choice to stitch a fabric of your choice from the ones provided (Pick about four fabric materials, one is about 1.5 to 2 square feet). Make a design sample of your own choice documenting all the steps for presentation

2. a. Pick any electronic methods of stitching and write an essay about the mechanics of control, output and time efficiency. State its advantages and disadvantages.

   b. Briefly discuss the computerized knitting process