University of Swaziland

Department of Computer Science

Supplementary Examination: January 2019

Title of paper

 $: Computer\ programming\ II$

Course Number

: CSC213

Time Allowed

: Three (3) hours

This paper may not be opened until permission has been granted by the invigilator

Instructions

- 1. Answer all questions.
- 2. This exam has pages 1 to 3 including the cover page.
- 3. The Exam user_id, password, tree, context and server name will be provided by the chief invigilator.
- 4. Submit folder, signed listings of printed programs and report files.
- 5. Use the last 10 minutes to check your submissions (pseudo codes, file specifications, signed listings of your programs and report files)
- 6. Read the complete question paper carefully before starting to work on the problem.
- 7. The names of all your files (project, source file and output files) should have following format

S----(Project Name)

S----cpp (Program file)

S----.TXT (data files)

The dashes in file names are six digits of your UNISWA student identity number.

Special requirements:

For each student

- 1. A networked PC with working C++ system.
- 2. An accessible secure network disk (F:\) & Printing facility

ANSWER FORMAT:

- 1. For each function, write (in your answer folder) a description of the input, output a detailed pseudo-code.
- 2. For each function, write C++ code. Compile and test your code.
- 3. Provide sufficient comment in your source code.
- 4. Output from your program must be properly formatted.

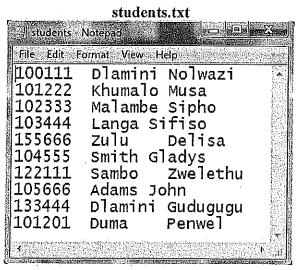
MARKING SCHEME:

Each question will be marked using following scheme: Pseudo code (30 %), Results (20 %), Program (50 %)

PROBLEM:

Write a program that reads student information from a file called **students.txt** and extract corresponding/matching scores/marks (matched using unique student identity number) from a file called **scores.txt**. The program should then write the student identity number, surname, name and the average score for each student to a file called **report.txt**. The figure below shows a sample of each of the three files. For testing purposes, electronic copies of the input files are provided.

INPUT	



scores.txt 🏐 scores - Notepad 🔫 🖳 File Edit Format View Help

OUTPUT

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L55666	zulū	Delisa	34.0
LO4555	Smith	Gladys	49.0
L22111	Sambo	Zwelethu	77.0
L05666	Adams	John	46.9
L33444	Dlamini	Gudugugu	67.0
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report tyt

OUESTION

Write a program that extracts and combines the information from the two input files (students.txt and scores.txt) and produces the output file (report.txt). Write proper pseudo-code for the program.

END OF EXAMINATION