THE UNITED REPUBLIC OF TANZANIA

NATIONAL EXAMINATIONS COUNCIL OF TANZANIA

ADVANCED CERTIFICATE OF SECONDARY EDUCATION

EXAMINATION

136/2 **COMPUTER SCIENCE 2**

(For Both School and Private candidates)

Time: 3 Hours **Year: 2014**

Instructions

1. This paper consists of **three (3)** questions**.**
2. Answer **two (2) questions** including question number **one (1).**
3. Save your work on the desktop named by your **examination number.**
4. Save your work by using the 1997-2003 version of the MS office software.
5. Check whether the **printed work (s)** are similar to **the softcopy** saved in the folder.
6. Submit the **printed codes** and screenshots together with the softcopy of your **work (s).**
7. Cellular phones and any unauthorized materials are **not** allowed in the examination room.
8. Write your **Examination Number** on every page of your answer booklet **(s)**

1. (a) Write a C++ program that prompts the user to select either Arithmetic Progression (AP) or Geometric Progression (GP) to generate and display the sum of n terms. The program should request the user to enter first term, number of terms, common ratio or common difference depending on the user's selection.

   (b) Create a C++ program which prompts the user to enter 20 numbers and the program should count and print the number of zero, odd and even numbers entered.

2. Create an interface which is used to perform a selection game. The interface to display a message through a message box if topic/topics is/are selected and should display "YOU HAVE NO HOBBY" when no topic is selected. Create a table in the database using Microsoft access, and use visual basic program to create a user interface which will display the database created as an icon.

3. (a) Use HTML codes to create a given webpage with the specified page descriptions.

   (b) Create a simple watch by using JavaScript and HTML codes which can help the user to check for the current date and time after clicking button "Date". Additionally, the user should use it as a stop watch after clicking the button "Stop watch".