JEREMIAH NYAGAH NATIONAL POLYTECHNIC STRUCTURED PROGRAMMING CAT 2

QUESTION ONE (30 Marks)

- Looping assists a programmer to implement a programming logic at ease. Using suitable examples explain any three looping statements in C programming. (6

 Marks)
- 2. Distinguish between a variable and a constant (4Marks)
- 3. Explain four common data types used in C language. (4Marks)
- 4. Declare and initialize an array called AVERAGES to contain the following averages; (4 Marks)

36.20	30.00	67.20	100.00
53.65	93.50	45.60	21.90
20.70	45.30	67.30	78.36
92.45	35.90	67.45	90.45

- 5. State reasons why one would use an unsized array in C (2 Marks)
- 6. Explain the difference between Call by value and call by reference (2 Marks)
- 7. Write the general format of the IF......THENELSE control structure (3 Marks)
- 8. A program is required to calculate the volume of a cylinder. It is required that base area be calculated using a function basearea() and its return value be used in the main() to calculate the volume. Implement this in C language. (5 Marks)