

INTRODUCTION TO PROGRAMMING IN C (COSC 101)
TUTORERS: AKANDE O., SETON O.
TIME: 45 MINS

SECTION A (10 marks)

6. Define computer science
7. Identify the steps involved in problem solving in computer science
8. What is an algorithm?
9. Define programming methodology and the types that exist
10. Using flowcharts, describe the following control statements
 - iii. WHILE DO statement
 - iv. COMPOUND IF/ IF ELSE IF statement



SECTION B (10 marks)

Using a flowchart, represent the algorithm for the following problem:

An IT firm pays its staff an hourly rate (R) for the first 40 hours of work in a week. Thereafter, staff are paid 1.25 times the hourly rate (R) for the next 16 hours and 1.5 times the hourly rate (R) for further hours of the week. Taking the number of hours (H) and the rate (R) as inputs, the weekly wages is to be calculated.

Good luck