LAGOS CITY POLYTECHNIC, IKEJA

SCHOOL OF ENGINEERING AND APPLIED SCIENCE

DEPARTMENT OF COMPUTER SCIENCE

2015/2016 SEMESTER EXAMINATION

COURSE TITLE: OBJECT ORIENTED PROG. LANGUAGE WITH C++ NO OF QUESTION : 7

COURSE CODE: COM 313 TIME ALLOWED: $2^1/_2$ HRS

FOR WHOM: HND YR I CS PT INSTRUCTIONS: ANSWER ANY FIVE QUESTIONS

1. (a) What is a pre-processor?

(b) Write C++ programming language to generate the sum and average of two integers

(c) Write a C++ program to calculate the area of a trapezium **(Hint: A = Perimeter: = 2* (Length + Breadth));**

2. (a) What are the rules involved in coding C++ programming language

(b) Enumerate the arithmetic operators supported by both C and C++

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2. (a) What are the rules involved in coding C++ programming language

(b) Enumerate the arithmetic operators supported by both C and C++

(c) Write the following expressions in C++ notations

(i) Object
(ii) Classes
(iii) Inheritance
(iv) Data abstraction
(v) Encapsulation
(vi) Polymorphism

(c) Differentiate between a variable and constant

3. (a) Write a C++ programming language to output the word Hello World!

(b) Define the following C++ programming language

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4. (a) Write a C++ programming language to output the word Hello World!

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5. (a) Discuss briefly the fundamental data types in C++ programming language

(b) Dry run the written C++ program below and write out the outputs

```
//operating with h variables
#include <iostream>
using namespace stde;
int main()
{
//declaring variables:
int a, b;
int result;
//process:
a = 5;
b = 2;
a = a + 1;
result = a - b;
//printing the result:
cout << result;
```