

LAGOS CITY POLYTECHNIC, IKEJA
SCHOOL OF ENGINEERING AND APPLIED SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
2016/2017 SEMESTER EXAMINATION

COURSE	TITLE:	INTRO.	TO	COMPUTER
COURSE	TITLE:	INTRO.	TO	COMPUTER
COURSE CODE:	COM 113	PROGRAMMING	NO. OF	QUESTIONS: 6
COURSE CODE:	COM 113	PROGRAMMING	NO. OF	QUESTIONS: 6
FOR WHOM:	ND YR I CS, CE, EE	PT	TIME ALLOWED:	2 HRS
FOR WHOM:	ND YR I CS, CE, EE	PT	TIME ALLOWED:	2 HRS
ANY	ANY	ANY	INSTRUCTIONS:	ANSWER FOUR

QUESTIONS

1. (a) What is a **programming Language**? Explain the **Categories of Programming Language** with examples.
 (b) Highlight the **Program Development Life Cycle**.
- (c) Define an **algorithm**. Identify and explain ways of representing an algorithm.
2. (a) Given a problem definition for a program that will determine the number of times it occurs in a list.
 (i) Express your solution through pseudocode.
 (ii) Design a flowchart for the problem.
 (b) Differentiate between **coding** and **debugging**.
 (c) Differentiate between **compile-time error** and **runtime error**.
3. (a) Differentiate between **if-else statement** and **-else-if statement** with the aid of flowchart.
 (b) Explain the **common Errors when using the if-else statements**.
 (c) Use a code fragment to illustrate **if-else-else ifstatement**.
4. (a) Explain **repetition control structures** in Java statements. Give three types of repetition control structures known to you.
 (b) Explain **branching statements** in Java language. State the three branching statements in Java.
 (c) Why do we need **comments** in programming?
5. (a) Differentiate between **Classes** and **Objects** in object-oriented programming language.
 (b) Use a code fragment to illustrate **Class Instantiation** in Java programming language.

