

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

COURSE TITLE: PASCAL PROGRAMMING	NO OF QUESTIONS : 4
COURSE CODE: COM 412	TIME ALLOWED: 2 HRS
FOR WHOM: HND II CS FT	INSTRUCTIONS: ANSWER ALL

QUESTIONS

1. (a) Write the following algebraic expression in Pascal notations.
 - (i) $e^{x+y} \sin(x + ny)$
 - (ii) $b^2 - 4ac$
 - (iii) $1/a + b/c + \sin d$
 - (iv) $a^2 + 2ab + b^2$
 - (v) $2(1 + b)$
- (b) Define a reserved word, and list any 20 types of it you know.
- (c) Enumerate the different Pascal compilers and interpreter available for general use; who invented those state versions.
2. (a) Write a Pascal program to calculate the perimeter of a rectangle. Given the Length: = 5, and Breadth: = 2; using CONST declaration. (Hint Perimeter: = 2* (Length + Breadth));
- (b) Pascal programming language was developed and Implemented by whom in what year?
- (c) The Pascal programming language was named in honour of whom and between what years?
3. (a) Write the basic syntax of a Pascal program and explain its structures.
- (b) Enumerate the 6 types of operators supported by Pascal compiler with relevant examples.
- (c) Write a Pascal programe to add two values and generate its outputs.
4. (a) Write a program for an Arithmetic operator. Given the value for a: = 21, b: = 10 Hint: make use of the following signs +, -, */, MOD, DIV
- (b) Generate the output for your program written 4(a)