

**CROSS RIVER UNIVERSITY OF TECHNOLOGY, CALABAR**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**SECOND SEMESTER EXAMINATIONS 2016/2017 SESSION**

**COURSE CODE: CSC 1202**

**COURSE TITLE: INTRODUCTION TO PASCAL PROGRAMMING**

**TIME: 2HRS**

**INSTRUCTION:** Answer question 1 and any other 3.

- 1a. Discuss the structure of a Pascal program
- b. What is a comment in Pascal? Give the types of comments you know with examples
- c. Define the following: (i) variable (ii) constant (iii) data type (iv) identifier (v) reserved word
- d. Give the rules for giving names to identifiers in Pascal.
- e. List five reserved words and state their uses
- 2a. Discuss the primitive data types you know in Pascal
- b. Given the model: A (in bytes) = 8 x A (in bits), write a Pascal program to implement the model.
- c. Write a program using Pascal to computer the area (A) of a triangle given as  $A = \frac{1}{2}bh$ , where b is the base and h, the height of the triangle respectively.
- 3a. Using the syntax of a procedure and a function, distinguish between these two program segments
- b. Write a Pascal program that will compute and display the sum and average of 150 scores in CSC 1202
- 4a. Give the syntax of a selection statement in Pascal and explain how it is used
- b. Write a Pascal program that will display the remark "PASS" if a student's score is in the range 40 – 100, and "FAIL" otherwise.
- 5a. Discuss the types of loops you know
- b. Given the range  $1 \leq x \leq 200$ , write a simple Pascal program that will display the sum of squares of the numbers in the range
- 6a. What do you understand by the scope of a variable? How does it affect the visibility of a variable in a program?

- b. Write a Pascal program that includes a procedure to determine whether a number is even or odd.

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**SECOND SEMESTER EXAMINATIONS 2018/2019 SESSION**

**COURSE CODE: CSC 1202**

**COURSE TITLE: INTRODUCTION TO PASCAL PROGRAMMING**

**TIME: 2HRS**

**INSTRUCTION:** Answer any FOUR questions

- 1a. (i) Discuss the Pascal programming block  
(ii) What is a Loop Statement?  
(iii) Write the syntax for the statements below in Pascal;  
(a) If then Else (b) While Do
- b. Write a Pascal program using the **while loop** to display all even numbers between 2 and 50.
- 2a. (i) Differentiate between local variable and global variable, illustrate with example  
(ii) Discuss two types of operators in Pascal with examples.
- b. Write a simple Pascal program using the **If Else Statement** allowing an individual of 21 years drive a car in Nigeria
- 3a. Write a short note on each of the following with examples where necessary:  
(i) Reserved words (ii) Comments (iii) Identifiers (iv) Constants (v) Data types
- b. (i) Differentiate between a procedure and a function  
(ii) Write a Pascal program using **function** to find the maximum between two (2) numbers.
- 4a. Discuss three control structures in Pascal with examples where necessary.
- b. Write a Pascal program that gets keyboard **input to compute the average** of 10 randomly selected numbers. Print the numbers.
- 5a. Differentiate between Arrays and Pointers

- b. Write a Pascal program using the **Procedure** command to display the square of an integer.
- 6a. Discuss five (5) concepts of a Programming language **relative to Pascal**
- b. Differentiate between the following: (i) Write (ii) Writeln (iii) Read (iv) Readln

**CROSS RIVER UNIVERSITY OF TECHNOLOGY, CALABAR**  
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**FIRST SEMESTER EXAMINATIONS 2017/2018 SESSION**

**COURSE CODE: CSC 1202**

**COURSE TITLE: PASCAL PROGRAMMING**

**TIME: 2HRS**

**INSTRUCTION:** Answer any FOUR questions

- 1a. (i) What is a Loop Statement?  
(ii) Explain the following syntax in Pascal Programming Language
  - (a) For.....Do
  - (b) Nested for – Do Loop
  - (c) Nested While – Do Loop
- b. Write a Pascal program using a nested for loop to find the prime numbers between 2 and 50.
- 2a. Differentiate between Arrays and Pointers
- b. List and explain four (4) concepts of Array
- c. Write a Pascal program to print the memory address stored in the pointer iptr
- 3a. Discuss Procedure and Function
- b. (i) Write a Pascal program using procedure to find the minimum between three (3) numbers.  
(ii) Write a Pascal program using function to find the maximum between two (2) numbers.
- 4a. (i) Briefly explain scope of variable in programming language

- (ii) Differentiate between local variable and global variable, illustrate with example
- b. List and discuss any three data types in Pascal programming
- 5a. List and discuss control structures in Pascal programming
- b. Write a simple Pascal program to create and save records in a text file for at least five students using the FOR DO loop statement. Each record is to contain fields such as Name, Matric Number, Department, Sex and Date of Birth.
- 6a. Pascal program to find the average of only positive numbers using the WHILE DO looping statement.
- b. List and briefly discuss any five (5) operators allowed in Pascal programming.