



NATIONAL OPEN UNIVERSITY OF NIGERIA
14/16, Ahmadu Bello Way, Victoria Island, Lagos

SCHOOL OF SCIENCE & TECHNOLOGY

Course Code: CIT 732
Credit Units: 3

Course

Course Title: Programming in PASCAL

Time Allowed: 2½ hrs

Instruction: Answer any four (4) questions

1a. Differentiate between the write and writeln. (7.5 marks)

1b. Assuming your first name is Paul and your surname is Abu, generate the output for the

Program "exam1" below. (10 marks)

```
Program exam1;  
  Var name, surname: String;  
Begin  
  Writeln('Your full name is: ',name,surname);  
  Readln;  
End.
```

2a. Generate the output for the below code snippet (7.5 marks)

```
Program exam2;  
  Var Age, Age2: integer;  
Begin  
  Age:= 30;  
  Age2:= 15;  
  Age2:= Age+15;  
  writeln;  
  Writeln('Your age is: ',Age,' ','NOT',Age2);  
  Readln;  
End.
```

2b. Give one example each on how Pascal understand/accept the following Functions

- i. Square (2 marks)
- ii. Square root (2 marks)
- iii. Natural log (2 marks)
- iv. Absolute value (2 marks)
- v. Rounds to nearest integer (2 marks)

3a. Write a short note on the result that will be generated by the above code snippet.

(10 marks)

```
For k := 0 to 100 do
Begin
    Write('Enter Name ');
    Read(name);
    Write('Enter Age ');
    Read(age);
End;
```

3b. Write short note on "for" statement. (7.5 marks)

4a. What is an Identifier? (7.5 marks)

4b. Write a for Loop code snippet to print "HELLO" ten (10) times. (10 marks)

5a. Write a decision code snippet to test and determine whether the value supplied is a negative or positive value. (7.5 marks)

5b. Differentiate between the Global and Local variables. (10 marks)

6a. Write short note on Function. (7.5 marks)

6b. Write a code snippet to assign values to five elements Array (10 marks)