



**NATIONAL OPEN UNIVERSITY OF NIGERIA
JABI FCT ABUJA
FACULTY OF SCIENCE**

CIT736: Computer Programming

TIME ALLOWED: 3Hours

INSTRUCTION(S): Attempt any Four (4) questions

Question 1

- a) List and briefly discuss using appropriate examples of the different types of data types used in Pascal programming **- 7.5 marks**
- b) As computer programmer, discuss any five features that satisfactorily qualify a program to be good **- 10 marks**

Question 2

- a) In Programming language, when are case statement preferred to the IF statement **5marks**
- b) Differentiate between static and dynamic arrays **7.5 marks**
- c) Reserved words in Pascal have their standard and predefine meaning. List any ten of them **-5 marks**

Question 3

- a) As a student of programming, discuss in details any 6 programming methodologies that you know **- 6 marks**
- b) Develop a program in FORTRAN to find the sum and product of 5 students TMA scores as follows score 1 =23, score 2= 27, score 3=29, score 4= 24, score 5= 28. **- 6.5 marks**
- c) Explain any five types of program errors that you know **- 5 marks**

Question 4

- a) Explain the concept of modular programming **3.5 marks**
- b)
 - i. What are procedures and functions? **2 marks**
 - ii. How are procedures and functions interrelated? **2 marks**
- c) List and explain any 10 input and output routines in Pascal **10 marks**

Question 5

- a) State the format for the if ..then..else control structure in FORTAN Programming? **- 6 marks**
- b) Fortran 90/95 has so many features . List any 10 of them **- 5 marks**
- c) Write a program in FORTRAN to convert centimetres into inches **- 6.5 marks**