



**National Open University of Nigeria**  
**Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja**  
**Faculty of Science**  
**2022-1 EXAMINATION**

**COURSE CODE: CIT 332**

**COURSE TITLE: Survey of Programming Languages**

**CREDIT: 4 Units**

**TIME ALLOWED: 3Hours**

**INSTRUCTION: Answer Question ONE (1) and any other FOUR (4) Questions**

**QUESTION ONE**

- a. Define the following terms  
i. program ii. Algorithm (*4 marks*)
- b. What is stepwise refinement (*2 marks*)
- c. List the aims guiding the design of a good computer program (*3marks*)
- d. List the different stages involved in program development (*3marks*)
- e. What are processing programs? Give examples of these in an operating system. (*4 marks*)
- f. What is the difference between macro flowcharts and micro flowchart? (*2 marks*)
- g. How are languages translated into machine code? (*4 marks*)

*(22 marks)*

**QUESTION TWO**

- a. What is Machine Language (*2marks*)
- b. State 2 advantages and 2 disadvantages of Machine Language (*4 marks*)
- c. What is Assembly Language (*2marks*)
- d. State 2 advantages and 2 disadvantages of Assembly Language (*4 marks*)

*(12 marks)*

**QUESTION THREE**

- a. What does the acronym BASIC stands for? (*2marks*)
- b. Name the two major variable types in BASIC? (*2marks*)
- c. Write the general format of a BASIC statement. (*2 marks*)
- d. Write a BASIC code that accepts two numbers A, B as input, computes the average of the input as C, and output the result (average). (*6marks*)

*(12 marks)*

**QUESTION FOUR**

- a. What does the acronym FORTRAN stand for? (*2marks*)
- b. List examples of FORTRAN 77 compilers? (*2 marks*)

- c. Identify the valid FORTRAN variables and the invalid (with reason) from the following  
C\$, 4AB, k4, JOS (2marks)
- d. Write a FORTRAN code that accepts two Integers, computes the sum of the two numbers and output the result. (6 marks)

(12 marks)

### QUESTION FIVE

- a. What are the two basic parts a PASCAL code contains? (2marks)
- b. State how to express the exponentiation operation and tangent function in Pascal since there are no direct ways of expressing them (2marks)
- c. Write a PASCAL code that accepts the radius of circle, computes the circumference of the circle and outputs the result (circumference). (8marks)

(12 marks)

### QUESTION SIX

- a. What does the acronym HTML stand for? (2marks)
- b. Write the general format of a HTML page. (4 marks)
- c. What are the functions of the HTML tags in (b)? (4 marks)
- d. Give four (4) examples of web browsers. (2marks)

(12 marks)

### QUESTION SEVEN

- a. Define the following Visual Basic terms: i. Project ii. Form iii. Object (6 marks)
- b. Distinguish between SDI and MDI and give an example each of the applications that allow Form windows in their mode. (4 marks)
- c. State at least 4 controls you can place on your forms. (2 marks)

(12 marks)