National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
2023_1 POP 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)