National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
2022-2 EXAMINATION

COURSE CODE: CIT 332
COURSE TITLE: Survey of Programming Languages
CREDIT: 3 Units
TIME ALLOWED: 3 Hours
INSTRUCTION: Answer Question ONE (1) and any other THREE(3) Questions

QUESTION ONE

a. What is a programming language? ***(2 marks)***
b. List the major component of each computer programming generation ***(5 marks)***
c. List four common primitive data type ***(2marks)***
d. What is the full meaning of the following acronyms with respect to the Von Neumann architecture ***(5marks)***

Acronmyn	Meaning
PC	
CIR	
MAR	
MDR	
IR	

e. Name two languages in each of the following categories: Von Neumann, Functional, object oriented. ***(3marks)***
f. What is the output of the following code? Show the value of i after each iteration ***(6marks)***
For (i=0, i<6, i++)
g. Define Syntactic ambiguity ***(2marks***)

QUESTION TWO

a. Describe the Von Neumann architecture ***(5marks)***
b. Outline the fetch/decode part of the fetch/decode/execute/reset cycle. ***(5 marks)***
c. State five criteria for language evaluation **(5 marks)**

QUESTION THREE

a. What are the three general methods of implementing a programming language (***6marks)***
b. State the compilation process(***4marks)***
c. Itemize the reasons responsible for program languages concept(***5marks)***

QUESTION FOUR

a. What is a scripting Language ***(2marks)***
b. State the two approaches in software development ***(4marks)***
c. Explain three application domains of a programming language ***(9marks)***

QUESTION FIVE

a. What is a Parser ***(2marks)***
b. State the types of parsers (***4marks)***
c. Outline three Functions of Semantic Analysis (***3marks)***
d. State two differences between syntax and semantics ***(4marks)***
e. Mention the two most common parameter passing techniques(***2marks)***

QUESTION SIX

a. What is a Subroutine ***(2marks)***
b. State two advantages of a subroutine ***(2marks)***
c. Explain the three types of control structures ***(6marks)***
d. In a tabular form, differentiate between a low level and a high-level language. ***(5marks)***