POKHARA UNIVERSITY

Level: Bachelor   Semester:Fall   Year   : 2020
Programme:BE   Full Marks: 100
Course: Principles of Programming Language   Pass Marks: 45
                                                Time   : 3hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1.	a)	What are phenomenology of programming language? Explain about the "Fascination and fear are common to new tools".	8
	b)	"Pass by reference has dangerous consequences in FORTRAN". Justify it with suitable example.	7
2.	a)	Illustrate looping in FORTRAN by writing a program to find out the square root of the first ten natural numbers.	8
	b)	Describe Name structure of FORTRAN.	7
3.	a)	ALGOL follows "zero-one-infinity" principle. Verify it comparing with FORTRAN.	8
	b)	How ALGOL has changes the way of programming in efficient way? Explain.	7
4.	a)	Describe different forms of for loop in ALGOL.	8
	b)	What are different searching techniques in LISP? Explain them with the help of walking down diagram.	7
5.	a)	How cases are handled while implementing recursive list processor?	7
	b)	What is LISP? Define the structural Organization of LISP program with example.	8
6.	a)	Explain Message Passing and Returning mechanism in Smalltalk	8
	b)	Describe three forms of message template in SMALLTALK.	7
7.		Write short notes on: (**Any two**)	2×5
	a)	Class representation	
	b)	Pseudocode design and Implementation.	
	c)	EBNF VS BNF With Examples.	