

POKHARA UNIVERSITY

Level: Bachelor

Semester – Spring

Year: 2021

Program: BE

Full Marks: 70

Course: Principles of Programming Language

Pass Marks: 31.5

Time: 2 hrs.

*Candidates are required to answer in their own words as far as practicable.
The figures in the margin indicate full marks.*

Attempt all the questions.

Section - A: (5×10=50)

Q. N. 1 Analyze the differences between FORTRAN and ALGOL control structure. 10

OR

Discuss the desirable characteristics of a good programming language. Create a scenario where a good programming language outperforms the previous one with reference to some of the modern high level programming languages.

Q. N. 2 “Different principles are to be considered while designing new language”. Explain with support of different principles 10

Q. N. 3 Differentiate association list and property list. Also write the user defined function for to extract property from property list(getprop()) and association list(assoc()). 10

Q. N. 4 “Object Orientated Programming has revolutionized the software industries”. Justify this statement with all necessary causes that make OOP revolutionary rather than just an evolution with the support of SMALLTALK. 10

Q. N. 5 Write a program to read 10 numbers in array and sort them in ascending order in FORTRAN. 10

Section - B: (1×20=20)

Q. N. 6 Design a pseudo-code for IBM machine.(considering 2000 words of 10 digit memory) 20

- arithmetic operation
- control flow
- moving
- input/output
- array
- indexing and loops