PUNE INSTITUTE OF COMPUTER TECHNOLOGY DHANKAWADI, PUNE – 43.

Department of Computer Engineering

Academic Year: 2019-20 (Semester-II)

UNIT TEST I

Year: 2019-20

Subject: Principles of Programming Language

Time: - 1 Hour Max. Marks: - 30

Date: 10/02/2020

Instructions to the candidates:-

1) All Questions are Compulsory.

2) Neat diagrams must be drawn wherever necessary.

3) Assume Suitable data if necessary.

Q. No.	Questions	Marks	Unit No.	Cos Covered	CO Mapping
1.	Explain the following major components of any Programming Language 1) Syntax 2)Semantics	5	1	CO1	Н
2.	State and explain EBNF definition for simple programming language (which constitutes conditional statement, loop statement and expressions)		1	CO1 CO2	Н
3.	What is important of reliability and maintainability to programming language? List the factors which ensure the reliability and maintainability.	5	1	CO1	Н
4.	Explain the semantic elements of programming languages along with its attributes with respect to binding.		1	CO1 CO2	M
5.	Explain the following models which are used in design of data types with examples 1) Cartesian product 2) Discriminated unions 3) Recursion	6	2	CO2	Н
6.	What are primitive and built in data types? List the advantages of introducing built -in data types in programming languages.		2	CO2	M