

**R09**

Code No: 54028

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**B.Tech II Year II Semester Examinations, November/December - 2020**

**PRINCIPLES OF PROGRAMMING LANGUAGES**

**(Information Technology)**

**Time: 2 hours**

**Max. Marks: 75**

**Answer any five questions  
All questions carry equal marks**

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- 1.a) Briefly write about programming language implementation.
- b) Compare and contrast various programming paradigms. [7+8]
2. What are the formal methods of describing syntax? Explain in detail about them. [15]
3. Discuss about the design and implementation uses related to the following data types  
a) Primitive types                      b) Array types. [7+8]
- 4.a) Write a program in your favorite language that determines and outputs the precedence and associativity of its arithmetic and Boolean operators.
- b) Explain in detail about Iterative statement. [8+7]
- 5.a) Explain about design issues of functions.
- b) What are various parameter passing models? Write about their implementation models. [7+8]
- 6.a) Explain the concept of abstract data types in C++ with examples.
- b) Explain in detail the object oriented programming in Java. [8+7]
7. Explain Exception Handling in Java with examples. [15]
- 8.a) Explain about LISP in detail.
- b) Explain the properties of Functional Programming languages. [7+8]

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