R15

Code No: 124DJ
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech II Year IISemester Examinations,August/September - 2022
PRINCIPLES OF PROGRAMMING LANGUAGES
(Information Technology)

Time: 3 Hours   Max.Marks:75

Answer any five questions
All questions carry equal marks
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1.a) Give the syntax of 'case' statement in pascal using BNF notation and syntax graphs.
  b) Discuss the relative advantages of object oriented programming paradigm.   [8+7]

2.a) Write the basic concept of denotational semantics.
  b) Explain the various programming domains and their associated languages.   [8+7]

3.a) Why type checking is used? Compare static and dynamic type checking and give their relative advantages.
  b) How are different iterative statements represented? Explain with examples   [8+7]

4.a) Define an array. Explain the process of array initialization. Discuss the types of arrays available with examples.
  b) Why unconditional branching is used? Explain the problems associated with it.   [8+7]

5.a) How is subprogram overloaded? Give examples.
  b) Write about scope and lifetime of variables with examples.   [8+7]

6.a) Name the languages which allows co-routines. What are the characteristics of co-routines?
  b) Briefly explain parameter passing methods with examples.   [8+7]

7.a) Discuss the importance of exception handling in ADA. Explain.
  b) Explain about c# threads.   [8+7]

8.a) Give about the operations that can be performed on atoms and lists in LISP.
  b) Write about the different types of type variables, Supported in python?   [8+7]

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