Code No: 124DJ
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech II Year II Semester Examinations, March - 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)   List the potential benefits of studying programming language concept.
  b)   What are the three fundamental features of an object oriented programming language?
                                                                                                    [8+7]

2.a)   What does it mean for a program to be reliable? Discuss.
  b)   Describe some design trade-offs between efficiency and safety in some languages you know.   [7+8]

3.a)   Discuss the merits and demerits of short circuit evaluation.
  b)   State whether static binding is more reliable or dynamic binding. Explain why.   [8+7]

4.a)   What is the importance of Named constants? Discuss with suitable examples.
  b)   List the advantages of using control structures in any of the compiled programming languages.   [8+7]

5.a)   State the importance of Local Referencing Environments with suitable examples.
  b)   What are the three general characteristics of subprogram?   [8+7]

6.a)   In what way co-routines are different from conventional subprograms? Explain.
  b)   Describe the way that aliases can occur with pass-by-reference.   [7+8]

7.a)   List and explain the merits and demerits of subprogram level concurrency.
  b)   Give an example for exception handlers in Ada language.   [8+7]

8.a)   Write features of Haskell that makes very different from schema.
  b)   What are the advantages of Python scripting language over other scripting languages? Explain.   [8+7]

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