Code: 15A12402

R15

B.Tech II Year II Semester (R15) Regular Examinations May/June 2017
PRINCIPLES OF PROGRAMMING LANGUAGE
(Information Technology)

Time: 3 hours
Max. Marks: 70

PART – A
(Compulsory Question)
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1 Answer the following: (10 X 02 = 20 Marks)
  (a) List out the qualities of a language.
  (b) Write short note on software environment.
  (c) Define user defined data type.
  (d) Write the design issues of character string type.
  (e) Differentiate static and dynamic binding.
  (f) Explain about generic sub programs.
  (g) What is exception handling?
  (h) Write about object oriented programming in small talk.
  (i) Give an example for fact and rules in logic programming.
  (j) Define functional language.

PART – B
(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

2 What are the elements of software development process? And characteristics.

OR

3 What is the difference between syntax and semantics of programming languages?

UNIT – II

4 Discuss structural and name equivalence for types? Give an example of a language used for each approach.

OR

5 Write a note on Boolean and relational expressions.

UNIT – III

6 Define subprograms. What are the advantages of subprograms? Explain different methods of parameter passing mechanisms to subprograms.

OR

7 Discuss about procedures and functions in subprograms with example.

UNIT – IV

8 Discuss object oriented programming in SMALL TALK with an example.

OR

9 Explain the design issues of exception handling.

UNIT – V

10 Explain the functional programming language and its applications.

OR

11 Describe about programming language PROLOG and also write the deficiencies of PROLOG.

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