

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)

- 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.
