

B.TECH. DEGREE EXAMINATION, NOVEMBER 2011**Eighth Semester**

Branch : Computer Science and Engineering

PRINCIPLES OF PROGRAMMING LANGUAGES (R)

[Supplementary]

Time : Three Hours

Maximum : 100 Marks

*Answer all questions.***Part A***Each question carries 4 marks.*

1. What are the attributes of a good programming language ?
2. What is meant by runtime binding ? Explain.
3. What is coercion ? Explain with examples.
4. Differentiate between data object and data structures.
5. What is an abstract data type ? Explain.
6. Explain explicit sequence control.
7. Define inheritance. Differentiate between single inheritance and multiple inheritance.
8. Explain the attributes of data control.
9. Write briefly on parallel programming languages.
10. Explain variations of subprogram control.

(10 × 4 = 40 marks)

Part B*Each question carries 12 marks.*

11. Discuss the effect of environment on languages, with reference to batch processing environment.

Or

12. Explain in detail the different programming language paradigms.
13. Explain how elementary data types are complemented ? How is type checking effected ?

Or

- ✓ 14. Describe a structured data type its specification and implementation.
15. Explain various storage management techniques.

Or

Turn over

16. Describe sequencing with arithmetic expression.

17. Explain various methods of passing parameters to procedures. Give examples for each.

Or

18. With example explain static scope and dynamic scope.

19. Describe in detail the exception handling techniques. Also explain how exception handling is done in JAVA.

Or

20. Explain variations of subprogram control and also give details of software architecture.

(5 × 12 = 60 marks)