

B.TECH. DEGREE EXAMINATION, MAY 2010**Eighth Semester**

Branch—Computer Science and Engineering

PRINCIPLES OF PROGRAMMING LANGUAGES (R)

(Regular/Supplementary)

Maximum : 100 Marks

Time : Three Hours

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

1. Discuss briefly about language paradigms.
2. Explain the role of programming languages.
3. What is the need of declaration in programming language ? Explain.
- ✓ 4. Discuss about structured data types.
- ✓ 5. Discuss briefly about Abstract data types.
- ✓ 6. What is meant by Implicit and explicit sequence control ?
- ✓ 7. Define subprogram control.
8. Explain inheritance.
9. Discuss the advantages of parallel programming. .
10. Describe exception handling in JAVA.

(10 × 4 = 40 marks)

Part B*Each question carries 12 marks.*

11. Write notes on "Effects of Environments on languages".

(12 marks)

Or

12. Explain the role of programming languages.

(12 marks)

13. Write notes on :

(i) Specification of data types.

(6 marks)

(ii) Implementation of data structure type.

(6 marks)

*Or***Turn over**

14. Discuss about type checking and type conversion. (12 mark)
15. Discuss the following :—
- (i) Encapsulation by subprogram. (6 mark)
 - (ii) Storage management. (6 mark)
- Or
16. Explain in detail sequencing with arithmetic expressions. (12 marks)
17. Write notes on :
- (i) Subprogram sequence control. (6 marks)
 - (ii) Inheritance. (6 marks)
- Or
18. Discuss in detail shared data in subprograms. (12 marks)
19. Discuss in detail various software architecture. (12 marks)
- Or
20. Write notes on "Hardware developments". (12 marks)
- [5 × 12 = 60 marks]