

B.TECH. DEGREE EXAMINATION, NOVEMBER 2010

Eighth Semester

Branch : Computer Science and Engineering

PRINCIPLES OF PROGRAMMING LANGUAGES (R)

(Supplementary)

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.
Each question carries 4 marks.

1. Briefly explain the role of programming languages.
2. Write short notes on language paradigms.
3. Explain with examples type checking.
4. Discuss about structured data types.
5. Explain about sequence control.
6. Explain abstract data types.
7. Explain about polymorphism.
8. Discuss in detail subprogram control.
9. What is meant by parallel programming? Explain.
10. Explain exception handling in JAVA and write their features.

(10 × 4 = 40 marks)

Part B

Answer all questions.
Each question carries 12 marks.

11. Discuss in detail "Design issues of programming language". (12 marks)
- Or
12. Write notes on 'language paradigms'. (12 marks)
13. Explain about assignment and initialisation. (12 marks)

Or

Turn over

14. Explain "Declarations and type checking for data structures".

(12 marks)

15. Discuss about storage management.

(12 marks)

Or

✓ 16. Explain in detail implicit and explicit sequence control.

(12 marks)

17. Write notes on "attributes of data control".

(12 marks)

Or

✓ 18. Explain the following:

✓ (a) Abstract data types revisited.

Inheritance

(6 + 6 = 12 marks)

✓ (b) Polymorphism.

19. Write notes on :

(a) Advances in language design.

(6 + 6 = 12 marks)

(b) Parallel programming.

Or

20. Write notes on "Exception handling" in JAVA.

(12 marks)

[5 × 12 = 60 marks]