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Reg. No.....

Name.....

# B.TECH. DEGREE EXAMINATION, NOVEMBER 2014

## Eighth Semester

Branch: Computer Science and Engineering

## PRINCIPLES OF PROGRAMMING LANGUAGES (R)

(Old Scheme—Prior to 2010 Admissions)

[Supplementary/Mercy Chance]

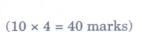
Time: Three Hours

Maximum: 100 Marks

#### Part A

Answer all questions.
Each question carries 4 marks.

- 1. Explain virtual computers.
- 2. Explain language design issues.
- 3. Write a note on data types.
- 4. Write a note on type checking.
- 5. What are abstract data types?
- 6. Explain encapsulation.
- 7. What is polymorphism?
- 8. What is inheritance?
- 9. Explain the need of parallel programming.
- 10. Explain how hardware development affects programming.



#### Part B

Answer all questions.
Each question carries 12 marks.

11. Explain the role of programming languages.

Or

- 12. Explain various language paradigms with examples.
- 13. Explain implementation of data types and data structure types.

Or

14. Write note on : (i) Type conversion.

(ii) Assignment and initialization.

Turn over

15. Explain implicit and explicit sequence control with example.

Or

- 16. Explain sequencing with arithmetic expressions and sequence control between statements.
- 17. Explain attributes of data control.

Or

- 18. Explain shared data in subprograms.
- 19. Explain exception handling in JAVA with example.

Or

20. Explain architecture of a software.

 $(5 \times 12 = 60 \text{ marks})$ 

