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CS-602

B.E. VI Semester

Examination, December 2012

Principles of Programming Languages

Time: Three Hours

Maximum Marks: 100 Minimum Pass Marks: 35

Note: Attempt all Five questions.

All questions carry equal marks.

- 1 (a) Differentiate between static & dynamic semantics.
 - (b) Discuss the translation process of a compiler.

OR

- 2. (a) Discuss different language categories.
 - (b) What do you understand by program readability? Discuss this language design criteria with important characteristics.
- 3. (a) What do you understand by primitive data types? Explain with suitable examples.
 - (b) Discuss Array with its design issues. Also discuss Heterogeneous, rectangular and jagged arrays.

OR

- 4. (a) Discuss pointer along with its design issues. Also describe operations on pointers.
 - (b) Explain type binding in detail.

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- 5. (a) What do you understand by procedure and function? Differentiate between the two with suitable examples.
 - (b) What do you understand by scope of a variable? Describe along with its different types.

OR

- 6. (a) Discuss different parameter passing mechanisms in detail.
 - (b) Discuss generic functions in C++.
- 7. (a) Discuss concept of abstraction. Also discuss floating point as abstract data type.
 - (b) Discuss stack based storage management.

OR

- 8. (a) Discuss concept of inheritance in C++.
 - (b) What do you understand by semaphores? How semaphores are used for synchronization of tasks.
- 9. (a) What do you understand by Exception handling? Discuss Exception handling in C++.
 - (b) Discuss logic programming. Also give its applications.

OR

- 10. (a) What do you understand by 4GL? Discuss in detail.
 - (b) Discuss functional programming in detail. Also list different functional programming languages.
