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**CS-602 (GS)****B.E. VI Semester**

Examination, May 2018

**Grading System (GS)****Principles of Programming Languages***Time : Three Hours**Maximum Marks : 70*

- Note:** i) Attempt any five questions.  
ii) All questions carry equal marks.

1. a) Give a detailed comparison between imperative, object oriented, functional programming and logic programming? rgpvonline.com  
b) What do you mean by Compilation? Discuss briefly the various stages used in compilation?
2. a) What do you mean by Parsing? Explain its various approaches with its advantages and disadvantages.  
b) What is aliasing and overloading? Give an example to explain your answer.
3. a) Describe sequence control in various statements with suitable example.  
b) What is a Pointer? Explain the terms 'dereferencing' and 'deallocation' in this reference. Give merits of using pointer in a program.

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4. a) What is Variant record? How is it different with conventional record? Give an example.  
b) When and why dynamic type checking and static checking operation are performed? Give major advantages using type checking operations.
5. a) What is Parameter passing? Define actual and formal parameter? Explain call by value and call by reference by examples.  
b) Write short notes:
  - i) Co-routines
  - ii) Generic sub program
6. a) Describe heap storage management and its advantages.  
b) What is concurrency? Discuss the concept of subprogram level concurrency?
7. a) What do you mean by Exception Handling? How exceptions are handled in C++ and Java.  
b) Give a brief note on logic programming? Write down its application.
8. Write short notes on:
  - a) Lambda calculus
  - b) Functional programming
  - c) Semaphores
  - d) Message passing

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