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Question Paper Code : 91353

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

Fifth Semester

Electrical and Electronics Engineering

CS 2311/CS 59/10133 EE 604/10133 CS 304 — OBJECT ORIENTED
PROGRAMMING

(Common to Electronics and Instrumentation Engineering and Instrumentation and
Control Engineering)

(Regulation 2008/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State how data encapsulation supports reusability.
2. What are abstract classes?
3. List the operators that cannot be overloaded.
4. Define the virtual functions.
5. What are streams?
6. What is the use of templates?
7. What is the significance of Java Virtual Machine?
8. How is garbage collection done in Java?
9. Give on a example on streams.
10. What are the two types of exceptions?

PART B — (5 × 16 = 80 marks)

11. (a) Explain briefly about various object oriented programming concepts and show how C++ supports them.

Or

- (b) What are constructors and destructors? With suitable example explain various forms of constructors.

12. (a) With suitable example, explain how function overloading and operator overloading supports compile-time polymorphism.

Or

- (b) What is the significance of inheritance? Explain various types of inheritance with suitable examples.

13. (a) List of the C++ classes associated with streams and I/O operations. Write a simple C++ program to copy one file contents into another file.

Or

- (b) Create a user defined class called String and include methods that implement all the standard string operations.

14. (a) Write a simple java program to implement basic Calculator operations.

Or

- (b) How packages are used to resolve naming conflicts in Java? With an example show to add classes to packages and how to import packages in classes.

15. (a) What are interfaces? Explain with an example how multiple inheritance is implemented using interfaces.

Or

- (b) What is multithreading? Explain the two methods of implementing threads with an example.