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**Question Paper Code : 10273**

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2012.

Fifth Semester

Electrical and Electronics Engineering

CS 2311/CS 59/10144 CS 304 — OBJECT ORIENTED PROGRAMMING  
(Common to Instrumentation and Control Engineering and Electronics and  
Instrumentation Engineering)

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define abstraction and encapsulation.
2. When will the destructors be called? Is it implicit or explicit?
3. List the operators that cannot be overloaded.
4. What are pure virtual functions? Where are they used?
5. Define Exception. Give example.
6. State the purpose of namespaces with example.
7. What is byte code?
8. What are packages?
9. Define interface. State its use.
10. What is thread?

11. (a) Explain in detail about Class, Objects, Methods and Messages.

Or

- (b) Write a C++ program to define overloaded constructor to perform string initialization, string copy and string destruction.

12. (a) Write a C++ program to implement  $C = A + B$ ,  $C = A - B$  and  $C = A * B$  where A, B and C are objects containing a int value (vector).

Or

- (b) Explain run time polymorphism with example program.

13. (a) Explain the different types of streams and various formatted I/O.

Or

- (b) Explain the various file handling mechanisms in detail.

14. (a) Write a java program to create two single dimensional array, initialize them and add them, store the result in another array.

Or

- (b) Write a java program to perform all string operations using String class.

15. (a) Explain in detail about inheritance with example program in java language.

Or

- (b) Explain with example program exception handling in java.