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Question Paper Code : 51339

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2014.

Third Semester

Computer Science and Engineering

CS 2203/CS 35/CS 1202/080230004/10144 CS 304 — OBJECT ORIENTED
PROGRAMMING

(Common to Information Technology)

(Regulation 2008/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is object oriented programming?
2. What are the operators of C++ that can not be overloaded?
3. How does constructor differ from normal functions?
4. Give the characteristics of friend function.
5. What are the types of exceptions provided by C++?
6. What is meant by function template?
7. Define dynamic binding.
8. What is meant by RTTI?
9. What is cross casting?
10. What is an I/O stream?

PART B — (5 × 16 = 80 marks)

11. (a) (i) What are the advantages of OOP? (4)
- (ii) Discuss in detail about const, volatile and static functions. (12)

Or

- (b) (i) Write a note on Default Arguments. (6)
- (ii) Explain in detail about Function Overloading with an example. (10)

12. (a) Explain the different types of constructors with examples. (16)

Or

- (b) (i) Write a program to overload + and - for stack class such that + provides Push and - provides Pop operation. (10)
- (ii) What are the different types of conversion? Compare them. (6)

13. (a) (i) Illustrate exception handling with suitable example. (8)

(ii) Discuss about class template with suitable example. (8)

Or

(b) Describe in detail about Unexpected and Terminate Functions. (16)

14. (a) (i) Explain hybrid inheritance with suitable C++ coding. (8)

(ii) Define polymorphism. Explain different types of polymorphism. (8)

Or

(b) Explain the virtual function with example in detail. (16)

15. (a) (i) Explain the four functions Seekg, Seekp, tellg, tellp used for setting pointers during file operation and show how they are derived from fstream class (6)

(ii) Write a C++ program to append the contents of a File. (10)

Or

(b) (i) Explain about Namespaces in detail. (8)

(ii) Discuss in detail about manipulators. (8)