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Question Paper Code : 91341

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

(Common to 10144 CS 304 — Object Oriented Programming for B.E. (Part-Time)
First Semester — CSE — Regulation 2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define : Data Abstraction, Encapsulation.
2. What are local classes? Give an example.
3. State the characteristics of the constructor function.
4. What is a destructor? How is it defined?
5. Mention the tasks performed by exception handling.
6. What is an exception specification?
7. What is a virtual base class?
8. What is a dynamic-cast operator?
9. What do you mean by *stream* in OOP?
10. Define namespace with syntax.

PART B — (5 × 16 = 80 marks)

11. (a) Explain briefly about the following term with suitable example :
- (i) Objects (4)
 - (ii) Classes (4)
 - (iii) Polymorphism (4)
 - (iv) Methods and Message passing. (4)

Or

- (b) Discuss about the need to use the default arguments with an example program. (8 + 8)

12. (a) (i) Explain about the Copy Constructor with an example. (5 + 5)
(ii) State the difference between Constructor and Destructor. (6)

Or

- (b) What is meant by operator overloading? Explain about overloading through Friend functions using an example code. (4 + 12)

13. (a) Explain briefly about the Exception handling mechanism with block diagram and write a suitable example program. (16)

Or

- (b) Describe about the syntax of Catch and Rethrow an exception with an example. (8 + 8)

14. (a) What is meant by Inheritance? Discuss about the different form of inheritance with suitable example. (16)

Or

- (b) Explain about the concept of Virtual function with a simple program and state the rules of Virtual functions. (10 + 6)

15. (a) Explain briefly about the features of Formatted console I/O system. (16)

Or

- (b) Demonstrate with an example, how String Objects are created? How it can be modified? (8 + 8)