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**Question Paper Code : P 1203**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2009.

Third Semester

Computer Science and Engineering

CS 1204 — OBJECT ORIENTED PROGRAMMING

(Common to B.Tech. Information Technology)

(Common to B.E. (Part-Time) Second Semester Regulation 2005)

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is enum data type?
2. When a function will be made inline? Why?
3. How does one invoke a constructor function?
4. What is protected visibility?
5. What is seekg() and seekp()? Give example.
6. What is rethrowing an expression?
7. What are the two ways of using Super keyword?
8. How can overriding be prevented?
9. What method can be used for changing case of characters?
10. What is wait (), notify (), notify All ()?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Write a program using C++ to check if the string is palindrome or not. (8)
- (ii) Write a C++ program to find sum of series of n term (8)

$$1 - \frac{2}{2!} + \frac{3}{3!} - \frac{4}{4!} + \frac{5}{5!} \dots$$

Or

- (b) (i) Write a program in C++ that contains a function which takes an integer array as argument and returns the sum of the array elements. (8)
- (ii) Write a program in C++ to find whether a given number is prime. (8)
12. (a) Write a C++ program to explain unary and binary operator overloading.

Or

- (b) Explain with example the concepts of virtual base class and Virtual functions.
13. (a) (i) Write a program in C++ with exception and multiple catch statements. (8)
- (ii) Write a program using Sequential File Access using put () and get (). (8)

Or

- (b) Explain all the features in formatted console I/O operations.
14. (a) Explain with example passing objects as parameters to methods and returning objects from methods in JAVA.

Or

- (b) Explain Method Overriding and Dynamic method dispatch.
15. (a) What is interface? Explain defining, implementing and accessing Interfaces through references.

Or

- (b) How are threads created and synchronized? Explain with examples.