St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI – 620 002

SEMESTER EXAMINATIONS – APRIL 2015

TIME: 3 Hrs.   **MAXIMUM MARKS: 100**

SEM	SET	PAPER CODE	TITLE OF THE PAPER
II	2014	14USS230205	OBJECT ORIENTED PROGRAMMING

SECTION – A

Answer all the questions: **20 x 1 = 20**

Choose the correct answer:

1. Act of representing essential features without including the background details is known as _____.
   a) abstraction   b) reusability
   c) object   d) inheritance

2. In a function, only the _____ arguments can have default values.
   a) trailing   b) leading
   c) middle   d) top

3. _____ operator can be overloaded.
   a) +   b) size of
   c) ::   d) ?:

4. _____ class is subclass.
   a) derived   b) base
   c) super   d) main

5. _____ is not a file mode parameter.
   a) unary   b) binary
   c) no replace   d) ate

Fill in the blanks:

6. Wrapping up of data and functions into a single unit is known as _____.

7. A _____ member function can be called using the class name.

8. Constructor name is same as the _____ name.

9. In OOP, the concept of _____ provides the idea of reusability.

10. _____ file mode parameter is used to open a file for writing only.

State True or False:

11. C++ is a superset of C language.

12. In C++, main () returns a value of type 'int' to the operating system.

13. Friend function can be a member function.

14. Nesting of classes allowed in C++.

15. Rethrowing an exception is not allowed in C++.

Match the following:

16. object   - a) catch

17. inline   - b) class

18. copy   - c) function

19. private   - d) constructor

20. try   - e) public

SECTION – B

Answer all the questions: **5 x 4 = 20**

21. a. Give the structure of a C++ program.

OR

    b. Give 'for loop' and 'while loop' structures.

22. a. Write a program to add two numbers of integer data type and to add two numbers of float data type using functions. Apply Function overloading.

OR

    b. Write a program with a fried function to find the average of two data members of an object.

23. a. Explain Destructor.

OR

    b. Explain operator overloading.

24. a. Define class and abstract class.

OR

    b. Explain Virtual base class.

25. a. List out the stream classes for console I/O operations.

OR

    b. Explain the manipulators setw() and setprecision() with their meaning and examples.

SECTION – C

Answer any FOUR questions: **4 x 15 = 60**

26. List out various operators available in C++.

27. Define a class to represent a Bank Account. Include the following members:

    Data members: Name of the depositor, Account number, Type of account and Balance amount in the account.

    Member functions: To assign initial values, to deposit an amount, to withdraw an amount after checking the balance and to display name and balance.

    Write a main program to test the class.

28. Explain different types of constructor with examples.

29. Explain various types of inheritance.

30. Write a program to create a data file for a group of employees with the fields Employee number, name and salary and to read a created data file and to display it on the screen.

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