

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2011 – 12)

SUBJECT CODE: 11BI/PC/CP14

M. Sc. DEGREE EXAMINATION, NOVEMBER 2011
BIOINFORMATICS
FIRST SEMESTER

COURSE : CORE

PAPER : C++ FOR BIOINFORMATICS

TIME : 90 MINUTES

MAX. MARKS: 50

SECTION – A

ANSWER ALL QUESTIONS.

(30 x 1=30)

- _____ is the process of which objects of one class acquire the properties of objects of another class.
a. Encapsulation b. Inheritance c. Polymorphism d. Objects
- Single line comments start with _____.
a. // b. /* c. ' d. &
- main() returns an _____ type value to the Operating System.
a. int b. float c. char d. string
- _____ is a combination of operators, constants and variables arranged as per the rules of the language.
a. Keywords b. identifiers c. expressions d. constants
- A _____ is written to perform a task.
a. Inheritance b. overloading c. dynamic call d. function
- A _____ member function can only be called by another function that is a member of the class.
a. private b. public c. protected d. Any of these
- A _____ has the same name as that of a class.
a. object b. constructor c. inheritance d. variables
- _____ is called as scope resolution operator.
a. . b. : c. :: d. ”
- The operator _____ reads the data character by character and assigns it to the specified location.
a. << b. >> c. >>> d. <<<

FILL IN THE BLANKS

- The syntax of function prototype is _____.
- Find errors if any:
a. float average(x,y);
b. mul(int a,b);
- The wrapping up of data and functions into a single unit is known as _____.
- C++ is _____ language.
- ~obj(){ } is an example of a _____.

15. The pointers which are not initialized in a program are called _____ pointers.
16. A destructor takes _____ arguments and returns _____ value.
17. Constructors should be declared in _____ section.
18. _____ format function specifies the number of digits to be displayed after the decimal point of a float value.

TRUE OR FALSE

19. In C++, a function contained within a class is called a member function.
20. When arguments are passed by value, the function works with the original arguments in the calling program.
21. A function can also return an object.
22. A virtual function cannot be a friend of another class.
23. Virtual constructors are not permitted.
24. A constructor can be overloaded.

MATCH THE FOLLOWING

- | | |
|--------------|---|
| 25. ios::app | address operator |
| 26. seekg() | append to end of file |
| 27. tellg() | go to end of file on opening |
| 28. ios::ate | indirection operator |
| 29. & | moves get pointer to a specified location |
| 30. * | gives the current position of the get pointer |

SECTION – B

ANSWER ANY TWO QUESTIONS. EACH ANSWER SHOULD NOT EXCEED 500 WORDS. (2x 10 = 20)

31. Explain functions in C++ in detail.
32. What are constructors? Explain with an example program.
33. Explain any five OOP concepts in detail.
34. Explain pointers to objects and pointers to derived class in detail.
