

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted from the academic year 2019 – 2020 & thereafter)
SUBJECT CODE: 19BI/PC/CP14
M. Sc. DEGREE EXAMINATION, NOVEMBER 2022
BIOINFORMATICS
FIRST SEMESTER

COURSE : CORE

PAPER : PROGRAMMING IN C++ AND PERL

MAX. MARKS: 50

TIME : 1 ½ HOURS

SECTION A

ANSWER ALL THE QUESTIONS:

(20X1=20)

1. The smallest individual unit in a program is known as a _____.
2. _____ data type cannot be used to declare variables in C++.
3. The process of converting one data type to another type is called _____.
4. Errors may be syntactical or _____.
5. _____ functions implement polymorphism.
6. _____ is a pointer that does not point to any data object.
7. An array having class type elements is known as _____.
8. A base class that has a pure virtual member function is an _____.
9. Use of _____ variables reduces the size of the program and improves the performance.
10. In C++, _____ is a pointer to the invoking object of the class type.
11. _____ function in PERL returns the first occurrence of a character in a string.
12. The _____ header file contains information important for user-controlled file processing operations.
13. The _____ function is used by PERL for reversing a string.
14. _____ data type in PERL stores associative arrays.
15. The '->' symbol represents _____ operator.
16. Command line arguments in PERL are stored in _____.
17. Language which features rich text processing capabilities and flexibility is _____.
18. The expression that matches a line which begins with 'a' is _____.
19. BioPerl is an active _____ software project supported by the Open Bioinformatics Foundation.
20. What could be the output of the code
my @a = (0, 1, 2);
my \$b = @a;
print \$b;

SECTION B

ANSWER ANY TWO QUESTIONS:

(2X15=30)

21. Explain conditional statements and looping structures in C++ with its purpose and simple programs.
22. Mention and explain different types of member functions with examples.
23. a) Give the purpose of string built-in-functions used in PERL.
b) Explain user-defined functions in PERL with its types.
24. Explain various file operations with its mode in PERL programming.
