



Time: 3.00 Hours

## Standard 11 COMPUTER SCIENCE

Marks: 70

### PART -I

I Answer all the questions

15 x 1 = 15

1. Name the volatile memory  
 a) ROM                      b) PROM                      c) RAM                      d) EPROM
2. How many bytes does 1 Kilo Byte contain?  
 a) 1000                      b) 100                      c) 1012                      d) 1024
3. Which of the following is not the part of the microprocessor unit?  
 a) ALU                      b) Control Unit                      c) Cache memory                      d) Register
4. The operating system which supports Mobile devices.  
 a) Windows-7                      b) Linux                      c) BOSS                      d) iOS
5. The shortcut key used to rename a file in windows  
 a) F2                      b) F4                      c) F5                      d) F6
6. What was the original name given to C++?  
 a) CPP                      b) C with Classes                      c) Advanced C                      d) Class with C
7. What will be the result of following statement?  

```
char ch='B';
cout<<(int) ch;
```

 a) B                      b) b                      c) 65                      d) 66
8. A loop that contains another loop inside its body....  
 a) Inner Loop                      b) Next loop                      c) Nested loop                      d) Inline loop
9. Which function is used to check whether a character is alphanumeric or not.  
 a) isalpha()                      b) isdigit()                      c) isalnum()                      d) islower()
10. By default, a string ends with which character?  
 a) \0                      b) \t                      c) \n                      d) \b
11. Which of the following supports the transitive nature of data?  
 a) Inheritance                      b) Encapsulation                      c) Polymorphism                      d) Abstraction
12. A class is derived from a class which is a derived class itself, then this is referred as  
 a) multiple inheritance                      b) multilevel inheritance  
 c) single inheritance                      d) double inheritance
13. The process of converting cipher text to plain text is called  
 a) Encryption                      b) Decryption                      c) key                      d) proxy server
14. Which of the following operator cannot be overloaded.  
 a) ::                      b) ? :                      c) sizeof()                      d) all of these
15. Which of the following are called instance of the class  
 a) members                      b) objects                      c) attributes                      d) properties

### PART -II

II Answer any 6 questions .Question no.21 is compulsory

6 x 2 =12

16. What is a Computer?
17. Convert the octal number (4217)<sub>8</sub> into its equivalent Binary
18. What is known as Multitasking?
19. How do we refine a statement?
20. What is recursive problem solving?

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21. The following constants are of which type?  
(i) 39 (ii) 032 (iii) 0XFACE (iv) 4.14
22. Compare If...else and ?: (Ternary) operator
23. What is Traversal In an Array?
24. Write short note about Tamil Programming Language.

### PART -III

III Answer any 5 questions Question no. 29 is compulsory

6 x 3 = 18

25. What is Booting? What are its types?
26. Differentiate Computer Organization from Computer Architecture.
27. List out the key features of Operating System.
28. What is the format of the specification of an algorithm?
29. Evaluate the following C++ expressions where x, y, z are integers and m, n are floating point Numbers. The value of x=5, y=4 and m=2.5  
(i)  $n = x + y / x$  (ii)  $z = m * x + y$  (iii)  $z = (x++) * m + x$
30. Write short note on pow() function in C++.
31. What is called anonymous structure. Give an example.
32. Write note on memory allocation of objects.
33. What is Operator overloading? Give some examples of operators which can be overloaded.

### PART -IV

IV Answer all the questions

5 x 5 = 25

34. Discuss the various generations of computer  
(or)  
Explain the Derived gates with expression and truth table.
35. Explain Types of ROM.  
(or)  
Explain the Elements of a Window.
36. Write a C++ program to find the total and percentage of marks you secured from 10<sup>th</sup> Standard public Exam. Display all the marks one-by-one along with total and percentage.  
Apply formatting functions.  
(or)  
Explain the syntax of any one of the entry controlled loop with suitable example.
37. Write the differences between modular programming and procedural programming.  
(or)  
What are the rules for operator overloading?
38. Explain the different visibility mode through pictorial representation.  
(or)  
What is Piracy? Mention the types of piracy? How can it be prevented?