



Standard 11 COMPUTER SCIENCE

Marks: 70

Time: 3.00 Hours

PART - I

15 x 1 = 15

I Answer all the questions

1. First Generation computers used
a) Vacuum tubes b) Transistors c) Integrated circuits d) Micro processors
2. 2^{50} is referred as
a) Kilo b) Tera c) Peta d) Zetta
3. Operating system is a
a) Application Software b) Hardware c) System software d) Component
4. The shortcut key used to rename a file in windows
a) F2 b) F4 c) F5 d) F6
5. A program written in high level language is called as
a) Object code b) Source code c) Executable code d) All the above
6. A loop that contains another loop inside its body
a) Nested loop b) inner loop c) inline loop d) Nesting of loop
7. In C++ which statement is used to terminate the execution of a loop?
a) goto b) switch c) continue d) break
8. In C++ the following is used for pointer to variable.
a) + b) / c) * d) &
9. Which is return data type of the function prototype of `add(int,int);` ?
a) int b) float c) char d) double
10. `int age[]={6,90,20,18,2};` How many elements are there in this array?
a) 2 b) 5 c) 6 d) 4
11. The identifiable entity with some characteristics and behaviour is
a) Class b) object c) structure d) member
12. The variable declared inside the class are known as
a) Data b) inline c) method d) attributes
13. Which of the following refers to a function having more than one distinct meaning?
a) Function overloading b) Member overloading
c) Operator overloading d) Operations overloading
14. The type of inheritance that reflects the transitive nature is
a) Single inheritance b) Multiple inheritance
c) Multi level inheritance d) Hybrid inheritance
15. Commercial programs made available to the public illegally are known as
a) freeware b) warez c) free software d) software

II Answer any 6 questions and question no.22 is compulsory $6 \times 2 = 12$

16. What is the function of memory?
17. Binary Addition : $110111 + 10011$
18. Differentiate Save and Save As option.
19. Draw a flow chart for conditional statement.
20. What is a reference variable? What is its use?
21. What is Polymorphism?
22. Write a C++ program to add all elements in a $(m \times n)$ Matrix.
23. Write down the Importance of Destructor.
24. Write a short notes on Tamil Programming Language.

PART -III

III Answer any 6 questions and question no. 29 is compulsory $6 \times 3 = 18$

25. Write the Truth tables of fundamental gates.
26. Write a note on Multiprocessing.
27. When do we say that a problem is algorithmic in nature?
28. Describe the differences between keywords and identifiers.
29. Write a C++ program to print the following series. 1, 4, 7, 10, 40
30. What are the key differences between if..else and switch statement (Any three)
31. Write note on array of string.
32. What are the rules for function overloading?
33. Explain about proxy server.

PART -IV

IV Answer all the questions $5 \times 5 = 25$

34. Discuss the various generations of computers.
(or)
Find 1's Complement and 2's Complement for the following Decimal Numbers.
a) -212 b) -76
35. Explain the Characteristics of a Micro processor.
(or)
Explain the different ways of finding a file or folder in windows OS.
36. Explain control statement with suitable example.
(or)
Write a C++ program to accept any integer number and reverse it.
37. Explain inline function with suitable example
(or)
Write a note on the basic concepts that supports OOPs.
38. What are the various crimes happening using computer?
(or)
Explain the different types of Inheritance.