

First Revision Examination 2019- 20

Time Allowed : 3.00 Hours]

COMPUTER SCIENCE

[Max. Marks : 70

PART - I**Note :i) Answer All questions.****15X1 =15****ii) Choose the correct answer.**

1. Expand POST
a) Post On Self Test b) Power On Software Test c) Power On Self Test d) Power On Self Text
2. How many characters can be handled in Binary Coded Decimal System?
a) 64 b) 128 c) 255 d) 256
3. How many bits constitute a word?
a) 8 b) 16 c) 32 d) determined by the processor used.
4. Which of the following Operating systems support Mobile Devices?
a) Windows b) Linux c) BOSS d) iOS
5. Which is the default browser for Ubuntu?
a) Thunder bird b) Fire box c) Internet Explorer d) Chrome
6. Omitting details inessential to the task and representing only the essential features of the task is known as
a) specification b) abstraction c) composition d) decomposition
7. $A + A = \dots\dots\dots$
a) A b) 0 c) 1 d) AA
8. Which is the only conditional Operator In C++?
a) ? : b) :: c) & d) +=
9. Structure definition is terminated by
a) : b) :: c) } d) ;
10. Which of the following supports the transitive nature of data?
a) Inheritance b) Encapsulation c) Polymorphism d) Abstraction
11. Which of the following access specifier protects data from inadvertent modifications?
a) Private b) Protected c) Public d) Global
12. Which of the following operator can be overloaded?
a) :: b) size of c) + d) *
13. Which amongst the following is executed in the order of inheritance?
a) Destructor b) Member function c) Constructor d) Object
14. Which one of the following tracks a user visits a website?
a) spyware b) cookies c) worms d) Trojans
15. Expand TSCII
a) Tamil Script Code for Instruction Interchange b) Text Script Code for Information Interchange
c) Telugu Script Code for Information Interchange d) Tamil Script Code for Information Interchange

PART - II**Answer any SIX questions Only. Question No.24 is compulsory.****6x2=12**

16. Write the functions of Control Unit
17. Differentiate Data and Information
18. What is a program counter?
19. What is multi-processing?
20. Distinguish between an algorithm and a process.
21. What is meant by a token? Name the token available in C++.
22. With note an Array of strings.
23. What is Polymorphism?
24. Does the return type of a function help in overloading a function?

V/11/C.S/1

PART – III

Answer any SIX questions Only. Question No.33 is compulsory.

6x3=18

25. Write the Demorgans Theorem
26. Differentiate CD and DVD
27. What are the differences between Windows and Linux Operating system?
28. What is case analysis?
29. Evaluate; $x += x + ++x$; Let $x=5$;
30. How will you pass a structure to a function?
31. What is the role of firewalls?
32. Write a short note on Tamil Virtual Academy.
33. What is Recursion?

PART – IV

Answer ALL the questions

5x5=25

34. Explain the different Generations of Computer OR
Explain the different Logic gates with Symbol, Truth table, Circuit and Equation
35. Explain advantages and disadvantages of open source operating systems OR
Explain the versions of Windows Operating System.
36. What entry control loop? Explain any one of the entry control loop with suitable example. OR
Explain scope of variable with example.
37. Explain nested classes with example. OR
Explain the different types of inheritance
38. **Write the output of the following**

```
#include<iostream>
#include<stdio.h>
using namespace std;
class P
{ public:
P ()
{ cout<< "\nConstructor of class P "; }
~ P ()
{ cout<< "\nDestructor of class P "; }
};
class Q
{ public:
Q()
{ cout<<"\nConstructor of class Q "; }
~ Q()
{ cout<< "\nDestructor of class Q "; }
};
class R
{ P obj1, obj2;
Q obj3;
public:
R ()
{ cout<< "\nConstructor of class R "; }
~ R ()
{ cout<< "\nDestructor of class R "; }
}
int main ()
{
Ro R;
Q oq;
P op;
return 0;
}
```

Explain some Common types of errors in C++.

OR