COMMON FIRST REVISION EXAMINATION - 2023

Standard - XI

Reg.No. ☐☐☐☐☐☐

Time: 3.00 hrs.

COMPUTER SCIENCE

Marks: 70

PART - I

Choose the most appropriate answer: 15×1=15

1. Identify the Input device
   a) Printer   b) Mouse   c) Plotter   d) Projector

2. Expansion for ASCII
   a) American School code for Information Interchange
   b) American Standard Code for Information Interchange
   c) All standard code for Information Interchange
   d) American Society code for Information Interchange

3. Which is the fastest Memory?
   a) Hard Disk   b) Main Memory   c) Cache Memory   d) Blue Ray disc

4. The File Management system used by Linux is
   a) ext2   b) NTFS   c) FAT   d) NFTS

5. To permanently delete a file or folder _____ key combination is used.
   a) Delete   b) Ctrl + Delete   c) Shift + Delete   d) Alt + delete

6. If i = 5 before the assignment i : i + 1, after the assignment the value of i is
   a) 5   b) 4   c) 3   d) 2

7. How many times the loop is iterated?
   i : = 0
   While i ≠ 5
   i : = i+1
   a) 4   b) 5   c) 6   d) 0

8. A loop invariant need not be true
   a) at the start of the loop   b) at the start of each iteration
   c) at the end of each iteration   d) at the start of the algorithm

9. Which of the following operator is extraction operator in C++
   a) >>   b) <<   c) <>   d) ^^

10. A loop that contains another loop inside its body:
    a) Nested loop   b) Inner loop   c) Inline loop   d) Nesting of loop

11. A function that calls itself is known as
    a) Built in function   b) user defined function
    c) Inline function   d) recursive function

12. Structure definition is terminated by
    a) :   b) }   c) ;   d) ::

13. Which of the following is a user defined data type?
    a) class   b) float   c) int   d) object

14. _____ pointer is used to refer to the current objects numbers.
    a) throw   b) try   c) this   d) union

15. Which one of the following tracks a user visits a website?
    a) spyware   b) cookies   c) worms   d) Trojans

PART - II

Answer any six questions. Question No.24 is compulsory: 6×2=12

16. What are the components of a CPU?
17. Convert $(46)_{10}$ into Binary number.
18. What is HDMI?
19. Define an Algorithm?
20. Draw a flow chart for conditional statement.
21. Define a loop invariant?
22. What are the advantages of inline functions?
23. What is TSCII?
24. Write the output of the following program.

```cpp
# include <iostream>
using namespace std;
int main ( )
{
   double varf = 178.25255685 ;
   cout << (float) varf << endl ;
   cout << (int) varf << endl ;
}
```

PART - III

Answer any six questions. Question No.33 is compulsory: 6×3=18

25. Differentiate optical and Laser mouse.
26. Give the truth table of XOR gate.
27. List out the key features of operating system.
28. Write the two ways to create a new folder.
29. What is conditional operator?
30. Write about strcmp( ) function?
31. What are the rules for function overloading?
32. Define Information hiding.
33. Write a c++ program to point following series:
    1 4 7 10 40

PART - IV

Answer all the questions: 5×5=25

34. a) Explain the basic components of a computer with neat diagram.   **(OR)**
    b) i) Add : $1101010_2 + 101101_2$ ii) Subtract : $1101011_2 - 111010_2$
35. a) Explain the characteristics of a micro processor.   **(OR)**
    b) Explain the concept of a Distributed operating system along with its advantages.
36. a) Explain scope of variable with example.   **(OR)**
    b) Mention the differences between constructor and destructor.
37. a) Explain the different types of Inheritance.   **(OR)**
    b) Write the different types of Cyber attacks.
38. a) Write a C++ program to find the area of a circle.   **(OR)**
    b) Write a C++ program to check palindrome or not.