Padasalai's Special Question Paper for Public Exam 2022
Model Question Paper 2
11th COMPUTER SCIENCE

TIME : 3.00 hrs   MARKS : 70

Instructions: (1) Check the question paper for fairness of printing.
(2) Use Blue or Black ink to write and underline and pencil to draw diagram.

Part - I

I. Note: (1) All Questions are compulsory   15 X 1 = 15
(2) Choose the most appropriate answer form the given four alternatives and write the option code and the corresponding

1. Which generation of computer used IC's?
   (a) First   (b) Second   (c) Third   (d) Fourth

2. What is the range of ASCII values for lower case alphabets?
   (a) 65 to 90   (b) 65 to 122   (c) 97 to 122   (d) 98 to 122

3. Which of the following is a CISC processor?
   (a) Intel P6   (b) AMD K6   (c) Pentium III   (d) Pentium IV

4. Which one of the following is a System software?
   (a) Operating System (b) Language Processor   (c) Both a & b   (d) none of these

5. If you want to select multiple files or folders, use ………………..
   (a) Ctrl + shift   (b) Ctrl + click   (c) shift + click   (d) Ctrl + shift + click

6. Which of the following activities is algorithmic in nature?
   (a) Assemble a bicycle   (b) Describe a bicycle
   (c) Label the parts of a bicycle   (d) Explain how a bicycle works

7. Which of the following properties is true after the assignment (at line 3?
   1. $-- i + j = 0$
   2. $i, j : = i + 1, j - 1$
   3. $--$?
   (a) $i + j > 0$ (b) $i + j < 0$ (c) $i + j = 0$ (d) $i = j$

8. Which of the following is not an invariant of the assignment?
   $m, n : = m + 2, n + 3$
   (a) m mod 2   (b) n mod 3   (c) 3 x m – 2 x n   (d) 2 x m – 3 x n

9. Which of the following operator is extraction operator of 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. cin >> n[3]; To which element does this statement accepts the value?
    (a) 2   (b) 3   (c) 4   (d) 5

12. The mechanism by which the data and functions are bound together into a single unit is known as ………….
    (a) Inheritance   (b) Encapsulation   (c) Polymorphism   (d) Abstraction

13. class x
```
{
int y; public:
x(int z){y=z;}
}x1[4];
int main()
{x x2(10);
return 0;}
```
How many objects are created for the above program?
    (a) 10   (b) 14   (c) 5   (d) 2

14. Which of the following operator is overloaded?
    (a) +   (b) Operator   (c) : :   (d) =

15. Which visibility mode should be used when you want the features of the base class to be available to the derived class but not to the classes that are derived from the derived class?

      (a) Private   (b) Public   (c) Protected   (d) All of these

Part - II

Answer any 6 in the following questions: **6x2=12**

    Q.No : 24 is compulsory

16. What is a computer?

17. Write the 1's complement procedure.

18. Which source is used to erase the content of a EPROM?

19. What is multi user operating system?

20. What are called standard icons?

21. Define an algorithm.

22. What is case analysis?

23. Define loop invariant.

24. int i=6;

   unsigned int j=10;

   cout<<sizeof(I * j);

   What is the output of the above code executed?

Part - III

Answer any 6 in the following questions: **6x3=18**

    Q.No : 31 is compulsory

25. Write a C++ program to print multiplication table of a given number.

26. What is built in functions?

27. Write note on Array of strings.

28. What are the advantages of OOPs?

29. What is the difference between the class and objects in terms of oop?

30. What are the rules for function overloading?

31. What are the points to be noted while deriving a new class?

32. What are the guidelines to be followed by any computer user?

33. Write a short note about Tamil Programming Language.

Part - IV

Answer the following questions: **5x5=25**

34. Write the Merits and demerits for the following: i) 2nd generation   ii) 4th generation **(OR)**

   Find the 1's complement and 2's complement for the following decimal number : a) -135   b) -46

35. Expand and Explain: PROM, EPROM, ROM.   **(OR)**

  a) Write a note on recycle bin   b) Write a note on the elements of a window.

36. Write the specification of an algorithm hypotenuse w hose inputs are the lengths of the two shorter sides of a right angled triangle, and the output is the length of the third side. **(OR)**

   Write about binary operators used in C++?

37. Explain the different types of inheritance. **(OR)**

   What is piracy? Mention the types of piracy? How can it be prevented?

38. Read the following C++ program carefully and answer questions

```
#include<iostream.h>
class negative
{
int i;
public:
        void accept()
        {
        cin>>i;
```

```
                }
                void display()
                {
                cout<<i;
                }
                void operator – ()
                {
                i=-i;
                }
        };
        void main()
        {
        negative n2;
        n2.accept();
        -n2;
        n2.display();
        }
```

a. Identify the operator that is overloaded.

b. The prototype of the overloaded member function is?

c. Which statement invoke the overloaded member function? **(OR)**

What is the output of the following program?

```
  #include<iostream.h>
  #include<conio.h>
cClass simple
  {
  private:
        int a,b;
  public:
        Simple (int x, int y)
  {
        a=x; b=y;
  }
  ~ simple()
  {
        Cout<<"destructor";
  }
  Void putdata()
  {
        Cout<<"A="<<a<<"\n";
        Cout<<"B="<<b;
  }
  };
  void main()
  {
  Clrscr();
  Simple s(5,6);
  s.putdata();
  getch();
  }
```