

Padasalai's Special Question Paper for Public Exam 2022**Model Question Paper 1
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**

- Name the volatile memory.
(a) ROM (b) PROM (c) RAM (d) EPROM
- The convert $(65)_{10}$ into its equivalent octal number
(a) $(101)_8$ (b) $(101)_{10}$ (c) $(101)_{12}$ (d) $(101)_4$
- How many memory locations are identified by a processor with 8 bits address bus at a time?
(a) 28 (b) 1024 (c) 256 (d) 8000
- Which one of the following is an application software to play audio and video files?
(a) Audio Player (b) Media Player (c) VLC Player (d) All of these
- Under which of the following OS, the option Shift + Delete – permanently deletes a file or folder?
(a) Windows 7 (b) Windows 8 (c) Windows 10 (d) all of the OS
- Who was a Hungarian Mathematician?
(a) G. Polya (b) John Wiley (c) Krysia Broda (d) Steve Vickers
- The algorithm can be specified as
(a) monochromatize (a, b, c) (b) $a = b = 0$ (c) $C = A + B + C$ (d) none
- If $m \times a + n \times b$ is an invariant for the assignment $a, b := a + 8, b + 7$, the values of m and n are
(a) $m = 8, n = 7$ (b) $m = 7, n = -8$ (c) $m = 7, n = 8$ (d) $m = 8, n = -7$
- Which of the following is a valid string literal?
(a) 'A' (b) 'Welcome' (c) 1232 (d) "1232"
- Syntax of the conditional operator is
(a) expression 1? expression 2: expression 3 (b) expression 1: expression 2
(c) expression 1! expression 2: expression 3 (d) expression 1: expression 2: expression 3
- Which of the following is the scope operator?
(a) > (b) & (c) % (d) ::
- The subscript in bracket can be a variable, a constant or an expression to
(a) character (b) integer (c) long double (d) float
- When a class is declared within another class, the inner class is called and the outer class is called
(a) enclosing class, nested class (b) nested class, enclosing class
(c) first class, second class (d) A class, B class
- A class that inherits from a superclass is called
(a) derived class (b) superclass (c) base class (d) parent class
- Human civilization developed with the innovation of computer in the
(a) 11th century (b) 13th century (c) 16th century (d) 20th century

Part - II**Answer any 6 in the following questions:****6x2=12****Q.No : 23 is compulsory**

- What is harvesting?
- In what multilevel and multiple inheritances differ though both contain many base class?
- List the operators that cannot be overloaded.
- Define methods of a class and write its types.
- What is row major order and column major order?
- What is Parameter and list its types?

Kindly send me your answer keys to our email id - padasalai.net@gmail.com

22. Find the errors in the following C++ program snippets:

```
Switch(x);
{
Case 1 to 2 ; cout<<"one"<<"two";
    break;
case 3 to 4 : cout<<three<<four;
    break;
};
```

23. Find the output:

```
int a,b,c;
a=6;
b=7;
c= (a++) - (--b);
cout<<c;
```

A	B
(a) Modulus	(1) Tokens
(b) Separators	(2) Remainder of a division
(c) Stream extraction	(3) Punctuators
(d) Lexical Units	(4) get from

24. Match the following:

Part - III

Answer any 6 in the following questions:

6x3=18

Q.No : 26 is compulsory

25. There are 7 tumblers on a table, all standing upside down. You are allowed to turn any 2 tumblers simultaneously in one move. Is it possible to reach a situation when all the tumblers are right side up? (Hint: The parity of the number of upside down tumblers is invariant.)
26. Draw a flowchart for -3 case analysis using alternative statements.
27. What is the format of the specification of an algorithm?
28. Write the two ways to create a new folder.
29. What are the advantages and disadvantages of time sharing features?
30. Differentiate PROM and EPROM.
31. Convert 98.46_{10} to binary.
32. Convert the given binary number $(11.011)_2$ into its decimal number.
33. Write the applications of computer.

Part - IV

Answer the following questions:

5x5=25

34. Discuss the various generations of computer. **(OR)**
Explain the different types of number systems?
35. Explain the characteristics of a microprocessor. **(OR)**
A knockout tournament is a series of games. Two players complete in each game; the loser is knocked out (i.e. does not play any more), the winner carries on. The winner of the tournament is the player that is left after all other players have been knocked out. Suppose there are 1234 players in a tournament. How many games are played before the tournament winner is decided?
36. a) What are the types of errors? b) Write the syntax: i) if-else-if ii) Nested if **(OR)**
Explain scope of variable with example.
37. Write a note on the basic concepts that supports OOPs? **(OR)**
What are the rules for operator overloading?
38. Read the following C++ program carefully and answer the questions:
#include<iostream.h>
void main()
{
int num=2;

```
do
{
cout<<num*num<<'\t';
num+=1;
} while(num<6);
}
```

- Name the control variable used in the program
- What is the test expression (condition) used?
- How many times will the loop be executed?
- What is the output of the following program?
- What type of loop statement is used in the program? **(OR)**

Debug the errors in the following C++ program(any 10 errors)

```
#include<stdio.h>
class a
{
int i;
public:
    A()
    {
i=0; }
    A(X)
    { x=i; }
    A (AX)
    {
i= x.i;
};
    void output()
    {
cout>>"i=">>i>>
    }
};
void main []
{
A a1(6), a2(a1)
a1.output();
a2.output{ }.
```

OUTPUT:

```
i=6
i=6
```

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