



## Standard 11 COMPUTER SCIENCE

Time: 3.00 Hrs.

Marks: 70

### PART - I

#### I. Choose the correct answer:

15×1=15

- 1) Expansion of POST is \_\_\_\_\_.  
a) Post of Self Test  
b) Power oP Self Text  
c) Power on Self Test  
d) Power on Software Test
- 2) Unicode system is \_\_\_\_\_ bit code.  
a) 8  
b) 16  
c) 32  
d) 64
- 3) Operating system is \_\_\_\_\_.  
a) Hardware  
b) Application software  
c) Device  
d) System software
- 4) If  $i = 7$ , before the assignment,  $i : = i - 7$  after assignment, then the value of  $i$  is \_\_\_\_\_.  
a)  $i < 0$   
b)  $i > 0$   
c)  $i = 0$   
d)  $i < = 0$
- 5) Smallest individual unit in a program coding is known as \_\_\_\_\_.  
a) Tokens  
b) Algorithm  
c) Variables  
d) Flowchart
- 6) Char  $ch = 'E'$ ;  $cout << (int)ch$ ; what is the output of the above code?  
a) 69  
b) 'e'  
c) 70  
d) 'E'
- 7) In C++ the block of code should be enclosed by a pair of \_\_\_\_\_.  
a) ( )  
b) [ ]  
c) { }  
d) < >
- 8) Which one of the statement is multi-branching statement?  
a) if-else  
b) switch-case  
c) do-while  
d) for
- 9)  $char NEWS [ ] = "Indian Express"; cout << strlen(NEWS);$  what will be the output?  
a) 14  
b) 15  
c) 16  
d) 17
- 10)  $struct sum \{int num;\}$ . In this definition which is the structure name?  
a) sum  
b) num  
c) struct  
d) int
- 11) Member functions defined with in a class acts as \_\_\_\_\_ function.  
a) inline  
b) recursive  
c) built - in  
d) nested
- 12) To print the symbol '\$', 10 times using the code, call \_\_\_\_\_ function.  

```
void dispchar (char ch='$', int size = 10)
{
    for(int i=1; i<=size; i++)
        cout<<ch;
}
```

  
a) dispchar ();  
b) dispchar (ch, size);  
c) dispchar ('\$ ', 10)  
d) (a) or (c)
- 13) Process of creating new class from an existing class is known as \_\_\_\_\_.  
a) Inheritance  
b) Polymorphism  
c) Object  
d) Abstraction
- 14) The process of converting cipher text to plain text is called \_\_\_\_\_.  
a) Encryption  
b) Decryption  
c) Key  
d) Proxy server
- 15) The first Tamil programming language is \_\_\_\_\_.  
a) Ezhil  
b) Azhahi  
c) Ponmozhi  
d) Menthamizh

### PART - II

#### II. Answer ANY SIX questions. Qn.no. 24 is compulsory:

6×2=12

- 16) What is a computer?
- 17) What is the use of PS/2 port and SCSI port?
- 18) What is "Multitasking"?

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- 19) What is the difference between Algorithm and Program?
- 20) Why is the main ( ) function special?
- 21) What is recursive function?
- 22) What is data Abstraction?
- 23) What is cyber crime?
- 24) Define 'Function Overloading'.

**PART - III****III. Answer ANY SIX questions. Qn.no. 28 is compulsory:****6×3=18**

- 25) Do the following Arithmetic.
- a) Find 2's complement of  $10001001_2$ .
- b) Add :  $1101010_2 + 110110_2$
- c) Subtract :  $1101011_2 - 110100_2$
- 26) What are the three levels of security provided by the security management of Operating System?
- 27) Write notes on 'specification as contract'.
- 28) Consider the assignment  $m, n := m+3, n-1$ . Is  $P(m, n) = m+3n$  an invariant?
- 29) Write a C++ program to print the following series:  
3 6 9 12 15 18 21
- 30) What is a structure? What is the purpose of having structure?
- 31) When a copy constructor can be called?
- 32) What do you mean by overriding?
- 33) Name some organisations and their projects to develop Tamil.

**PART - IV****IV. Answer the following questions:****5×5=25**

- 34) a) Explain the components of a computer with a diagram.  
**(OR)**  
b) Write the theorems of Boolean Algebra.
- 35) a) Explain the process management algorithms in operating system.  
**(OR)**  
b) Write the specification for the problem of testing whether a triangle (with sides a, b, c) is right angled using the square ( ) function.
- 36) a) What is a loop? Explain the For loop with suitable example.  
**(OR)**  
b) Write notes on call by value method in function calling with suitable example.
- 37) a) Write notes on the basic concepts of OOP. (Object Oriented Programming)  
**(OR)**  
b) Explain the ways of creating objects to a class.
- 38) a) What are the rules for operator overloading?  
**(OR)**  
b) Write notes on the types of inheritance.
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