Tsi11CS

i)

Tenkasi District Common Half Yearly Examination - 2024





Standard 11

Time: 3.00 Hours COMPUTER SCIENCE

Marks: 70 Part - I 15x1=15

ii) Choose the most appropriate answer from the given four alternatives and

write the option code with corresponding answer

1) Which among the following is executed in the order of Inheritance?

a) constructor

Answer all the questions.

b) Destructor

c) object

d) Member function

2) Which of the following deals with Procedures, Practices and values? b) Computer ethics c) Piracy d) Programs

3) Which of the following is a user defined data type?

a) char

b) class

c) float

d) int

4) The smallest individual unit in a program is

a) Tokens

b) Pseudocode 5) Which gate is called as the logical invertor?

c) OR

d) Flowchart d) NOT

a) XNOR b) AND Which is specified by the properties of the given input and the relation between the input and the desired output?

a) algorithm

b) Definition

c) Algorithm

c) Specification d) Statement

7) for(int i=2; i<=10; i++) How many times will the loop be executed?</p> b) 10 a) 9 c) 11 d) 0 8) Which of the following is the scope resolution operator?

a) %

b)::

c) >

d) &

9) cin>>n[4]; to which element does the statment accept the value?

b) 5

c) 3

10) A computer network security that monitors and controls incoming and outgoing traffic is: d) Virus

a) Firewall

b) Worms

c) Cookies

11) If two strings are equal then strcmp() function returns which value? b) -1 c) +1d) =

12) 1011₂ - the Hexadecimal equivalent is : b) D

a) F 13) int x = 50;

d) C

int main() int x = 500; cout << : : x;

> The output for the above snippet is: a) 500

b) *

c)::x

d) 5, 0

14) This can be used as alternate to endl command:

c) \n

d) \b

b) \t 15) Which of the following refers to a function having more than one distinct meaning?

a) Function overloading

b) Member Overloading

c) Operator Overloading

d) Object Overloading

Part - II

Answer any 6 questions. Q.No. 24 is compulsory.

6x2=12

16) Write the functions of control unit.

17) Define a loop invariant

18) Write a short note on cracking

19) What is Recursion?

20) Write a note on break and continue statement in C++

21) What is function overlaoding?

22) Why derived class is called 'Power Packed Class'?

23) Write down the importance of destructor

24) Write a while loop that displays number 5, 10, 15, 50

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Part - III
                                                                           6x3 = 18
Answer any 6 questions. Q.No. 33 is compulsory.
    25) Explain about classification of Microprocessors based on the Data width
    26) Write a note on User-defined functions
    27) What is Decomposition?
    28) Write short notes on class access specifier in C++
     29) Write about encryption and decryption
     30) Write the syntax and purposes of switch statement
     31) Write a short note Tamil virtual Academy
     32) What is called nested structure? Give example
     33) Read the following C++ snippet and answer the questions below.
             Class student
               int m, n;
             Public:
              Void add();
               float calc();
             }X1,X2;
          i) Identify the members of the class
          ii) What is the size of the objects X1, X2 in memory.
                                      Part - IV
                                                                            5x5 = 25
 Answer all the questions
     34) a) Discuss the various Generation of computers.
                                                                   (OR)
          b) Find 1's complement and 2's complement for the following Decimal number
                             ii) -125
             i) -96
     35) a) Explain the versions of windows operating system
                                                                   (OR)
          b) What are the types of Errors?
     36) a) Explain call by value method with example
                                                                   (OR)

 b) Mention the difference constructor and destructor

     37) a) What is an entry controlled loop? Explain any one of the entry controlled
             loop with syntax and suitable example.
                                                                   (OR)
          b) Explain scope rules of variables in C++ with example.
     38) a) What are the rules for operator overloading?
                                                                   (OR)
          b) Debug the following C++ program.
             % include (iostream.h)
             # include <conio.h>
                                             SIVAKUMARM,
                                               soi RammatoicHss,
Vallam-627809
             class A ( )
                public;
                int a1, a2 : a3;
            void getdata [ ]
                a1 = \ell 5; a2 = \ell 3; a3 = \ell 3;
            class B :: public A ( )
                PUBLIC
                void func()
                      int b1: b2: b3;
                      A :: getdata [ ];
                     \cdot b1 = a1;
                      b2 = a2;
                      a3 = a3;
                      cout << b1 << '\t' << b2 << 't\' << b3;}
                       void main ()
                       B der;
                       der1 : fun c( ); }
```