

TSL11CS

Tenkasi District
Second Revision Examination - 2024

Time: 3.00 Hours

Standard 11 COMPUTER SCIENCE Part - I

Marks: 70
15x15=15

Answer all the questions. Choose the most appropriate answer from the given four alternatives and write the option code with corresponding answer

- 1) was the first Digital computer
a) EDVAC b) ENIAC c) UNIVAC d) IBM series
- 2) The ASCII code equivalent to the upper case letter 'A' is
a) 97 b) 48 c) 64 d) 65
- 3) What is the storing capacity of double layer Blu-Ray Disc?
a) 4.7 GB b) 50 GB c) 2 TB d) 700 MB
- 4) Expansion of GUI
a) Graphical User Interface b) Graphical User Interchange
c) Graphics User Information d) Graphical Using Interface
- 5) The shortcut key used to quit an application in windows 7 is
a) F2 b) Ctrl + C c) Ctrl + Q d) Ctrl + E
- 6) The named boxes are used to store the data is called as
a) Algorithm b) Variables c) Information d) Abstraction
- 7) How many Data Qualifiers are used in C++
a) 2 b) 3 c) 4 d) 5
- 8) Identify the odd one from the keywords of Jump statement
a) Jump b) Goto c) Continue d) Break
- 9) Which function is used to get a single character from keyboard?
a) gets() b) getchar() c) puts() d) putchar()
- 10) At the end of every string is terminated by character
a) /0 b) \0 c) \n d) /n
- 11) Which programming technique aims more on algorithm
a) Procedural Programming b) Modular Programming
c) Object Oriented programming d) Database Programming
- 12) Which of the following is a user defined combination of data items with different data types
a) Array b) Float c) Class d) structure
- 13) A constructor without parameter is called as
a) Copy constructor b) Default constructor
c) Parameterised constructor d) Implicit call
- 14) Stealing tiny amounts of money from each transaction is called as
a) Fraud b) Scam c) Malware d) Salami Slicing
- 15) The First Tamil Programming Language is
a) Tamilzpori b) Azhagi c) Ponmozhi d) Ezhil

Part - II

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

6x2=12

- 16) What is cold Booting?
- 17) What is Micro Processor?
- 18) How do you create a new folder?
- 19) What is character constant in C++?
- 20) Write down the Syntax of Conditional Operator?
- 21) What is Recursion?
- 22) What is Software Piracy?
- 23) What is e-Governance?
- 24) Write down the syntax of operator overloading?

Part - III

Answer any six questions. Q.No.33 is compulsory.

6x3=18

- 25) Write a short note on UNICODE
- 26) Write any three advantages of Distributed Operating System
- 27) Write the Specification in a Standard format
- 28) Write a short note on setw() manipulator with its syntax.
- 29) What is function overriding?
- 30) What are the rules for function overloading?
- 31) Write a note on array of Strings with example

Test 17 CS

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- 32) Write the General Form of a Class definition
 33) Write the short program to print the following series 1, 5, 9, 13, 37

Part - IV

5x5=25

Answer all questions.

- 34) a) Explain the Logic Gates with expression, symbol and their corresponding Truth Table.
 (OR)
 b) Explain any five types of ports and interfaces in computer.
 35) a) Evaluate the following C++ Expression, where x, y, z are integers and m, n are floating point numbers. The value of x=5, y=4 and m= 2.5
 i) $n = x + y/x$ ii) $z = m * x + y$ iii) $z = (x + +) * m + x$;
 (OR)
 b) What is Exit-controlled Loop? Explain it with example?
 36) a) Write a program to accept any integer number and reverse it?
 (OR)
 b) Explain call by reference method with example
 37) a) Explain the different visibility mode through pictorial representation.
 (OR)
 b) Write the output of the following program

```
#include <iostream>
using namespace std;
Class Seminar
{ int Time;
public:
Seminar()
{Time=30;cout<<"Seminar starts now" <<endl;}
void Lecture()
{cout<<"Lectures in the seminar on " <<endl;}
Seminar(int Duration)
{Time = Duration; cout<<"Welcome to Seminar" <<endl;}
Seminar (Seminar & D)
{Time = D. Time;cout<<"Recap of Previous Seminar Content" <<endl;}
~Seminar()
{cout<<"Vote of thanks" <<endl;}};
int main()
{Seminar s1, s2(2), s3(s2);
s1.Lecture();
return 0;
}
```

E.RAJKUMAR
 M.C.A.,B.Ed,
 PG COMPUTER
 SCIENCE
 Tenkasi district
 Mobile No:8122402438

OUTPUT

15

14

13

- 38) a) Debug the following program
- ```
%include (iostream.h)
#include <conio.h>
Class A()
{public;
int a1, a2, a3;
void getdata[]
{a1=15; a2=13; a3=13;}}
class B : : public A()
{PUBLIC
void func()
{int b1 : b 2 : b3;
A: : getdata[];
b1=a1;
b2=a2;
a3=a3;
cout<<b1<<"\t"<<b2<<"\t"<<b3;}
void main()
{ B der;
der1: func();}
```

(OR)

- b) Explain any five computer crimes and their functions.



Tennasi District

STANDARD FOR CLASS - 10

2020-2021

Part - I

- 1) b) ENIAC.
- 2) d) 65
- 3) b) 50 GB
- 4) a) Graphical User Interface
- 5) c) CTRL + Q
- 6) b) variables
- 7) c) 4
- 8) a) JUMP
- 9) b) getch()
- 10) b) \0
- 11) b) modular programming
- 12) d) structure
- 13) b) default constructor
- 14) d) salami slicing
- 15) d) EZhil

Part - II

16. When the system starts from initial state it is switched on, we call it cold booting (Or) Hard booting.

- 3 MARKS

17. The Microprocessor is a programmable multipurpose silicon chip. It is driven by clock pulses. It accepts input as a binary data and after access (eg), it provides the output data as per the instructions stored in the memory.

- 2 MARKS

18. Method I:

- Open computer icon. Open any drive where you want to create a <sup>new</sup> folder.
- Click on File → New → Folder, Type in the Folder name and Press Enter key

Method - II (VPL)

Right click → New → Folder. - 2 MARKS

19. It is any valid single character enclosed within single quotes  
Example: 'A', '2', '8' etc (or) any valid example. - 2 marks
20. expression1? expression2: expression3 - 2 marks
21. A function that calls itself is known as recursive function. And this technique is known as recursion. - 2 marks
22. Software piracy is about the <sup>copyright</sup> violation of software created <sup>originally</sup> by an individual or institution. It includes stealing of codes / programs and other information illegally and creating duplicate copies by unauthorized means and utilizing this data either for one's own benefit or for commercial profit. - 2 marks
23. Getting Government services through internet is known as e-governance. Govt. of Tamil Nadu has been giving its services through internet. - 2 marks
24. Return type    class name:    operator    operator symbol (argument ID)  
 {       // Function body    } - 2 marks
- Part - III
25. 1. unicode is an encoding system, designed to handle various world languages, including Tamil  
 2. Its first version 1.0.0 was introduced in October 1991  
 3. unicode is the best suitable to handle Tamil. - 3 marks
26. • A user at one location can make use of all the resources available at another location over the network - 1 mark  
 • Many computer resources can be added easily in the network - 1 mark  
 Improves the interaction with the customers and clients. - 1 mark  
 Reduces the load on the host computer. - 1 mark  
 Any 3 points (3 marks)



- 27.
1. algorithm\_name (inputs)
  2. -- inputs - P
  3. -- outputs - Q

- 3 marks

28) Setw manipulator sets the width of the field assigned for the output. The field width determines the minimum number of characters to be written in output. - 2 marks

syntax:

Setw(number of characters) - 1 mark

29. When a derived class member function has the same name as that of its base class member function, the derived class member function shadows/hides the base class member function. This situation is called function overriding and this can be resolved by giving the base class name followed by :: and the member function name. - 1 mark

- 30)
1. The overloaded function must differ in the number of its arguments or datatypes.
  2. The return type of overloaded functions are not considered for overloading same datatype.
  3. The default arguments of overloaded functions are not considered as part of the parameter list in function overloading.

- 3 marks

31) An array of strings is a two-dimensional character array. The size of the first index (rows) denotes the number of strings and the size of the second index (columns) denotes the maximum length of each string. Usually, arrays of strings are declared in such a way to accommodate the null character at the end of each string. - 2 marks

Example: char Name [6] [10];

(or) Any suitable example (1 mark)





```

32. Class class-name
 {
 private:
 Variable declaration;
 function declaration;
 Protected:
 Variable declaration;
 function declaration;
 Public:
 Variable declaration;
 function declaration;
 };

```

by,  
E.RAJKUMAR  
M.C.A.,B.Ed,  
PG COMPUTER  
SCIENCE  
Tenkasi district  
Mobile No:8122402438

```

33) i = 1;
 while (i <= 37)
 {
 cout << i;
 i += 4;
 }

```

(OR)

```

for (int i = 1; i <= 37; i += 4)
 cout << i << "\t";

```

3

- 3 marks

(OR) Any Suitable Program

34) a)

|   |   | Part-IV |     | NAND gate |     | NOR gate |     | XOR |     | XNOR |  |
|---|---|---------|-----|-----------|-----|----------|-----|-----|-----|------|--|
| A | B | AB      | A+B | AB        | A+B | A⊕B      | A⊕B | A⊕B | A⊕B |      |  |
| 0 | 0 | 0       | 0   | 1         | 1   | 0        | 0   | 1   | 1   |      |  |
| 0 | 1 | 0       | 1   | 1         | 0   | 1        | 1   | 0   | 0   |      |  |
| 1 | 0 | 0       | 1   | 1         | 0   | 1        | 1   | 0   | 0   |      |  |
| 1 | 1 | 1       | 1   | 0         | 0   | 0        | 0   | 1   | 1   |      |  |

| A | $\bar{A}$ |
|---|-----------|
| 0 | 1         |
| 1 | 0         |

Truth table + expression - 2 1/2 marks

Logical gate: symbol - 2 marks

b)

- Serial Port → External devices
- Parallel Port → printers
- USB Ports
- USB 3.0
- VGA Connector → LCD projector
- Audio Plugs → head phones
- PS/2 port
- SCSI Port

Explain Any 5 headings - 5 marks



35) a) i)  $n = x + y/x$

$= 5 + 4/5$   
 $= 5 + 0$   
 $= 5$   
 (both x and y are int type)

ii)  $z = m * x + y$

$= 2.5 * 5 + 4$   
 $= 12.5 + 4 = 16.5$   
 $= 16$  (2 is int type, so 2<sup>nd</sup> part is discarded)

(ii)  $z = (x++) * m + z$

$= 5 * 2 + 5 + x$   
 $= 10 + 5 + 5$   
 $= 18$  (z int type, therefore fractional part removed)

b) The do while loop is an exit controlled loop. In do while loop, the condition is evaluated at the bottom of the loop after executing the body of the loop. This means that the body of the loop is executed at least once, even when the condition evaluates false after the first iteration.

Syntax:  $do \{$  body of the loop;  $\} while (condition);$

Any suitable program

36) a) Any suitable program

b) The method copies the address of the actual argument into the formal parameter. Since the address of the argument is passed, any change made in the formal parameter will be reflected back in actual parameter.

Any suitable example

37) a) private. Protected

public Explain 3 headings with diagram

b) Seminar starts now  
 Welcome to seminar  
 Recap of previous seminar content  
 Lectures in the seminar on  
 Vote of Thanks.

|        |                          |                             |
|--------|--------------------------|-----------------------------|
| 38) b) | cyber terrorism          | Identity Theft              |
|        | cyber stalking           | Intellectual property theft |
|        | Malware                  | Salami slicing              |
|        | Denial of service attack | Scam                        |
|        | Fraud                    | SPAM                        |
|        | Harvesting               | Spoofing.                   |

Explain any 5 headings

38

a)

| LINE NO       | Error                                   | Corrected Line                          |
|---------------|-----------------------------------------|-----------------------------------------|
| 1             | %include(classroom.h)                   | #include <classroom>                    |
| 3             | Missing                                 | using namespace std;                    |
| 4             | Class A                                 | class A                                 |
| 6             | Public;                                 | public:                                 |
| 8             | void getdata()                          | void getdata ()                         |
| <del>11</del> | <del>int a, b, c;</del>                 | <del>int a, b, c;</del>                 |
| 13            | 3                                       | 3;                                      |
| 15 14         | Class B::Public(A)                      | class B: public A                       |
| 17 16         | Public                                  | public:                                 |
| 17            | void func()                             | void func ()                            |
| 19            | int b1 : b2 : b3;                       | int b1, b2, b3;                         |
| 20            | A::getdata()                            | A.getdata ();                           |
| 23            | a3 = a3;                                | b3 = a3;                                |
| 24            | cout << b1 << '\t' << b2 << '\n' << b3; | cout << b1 << '\n' << b2 << '\n' << b3; |
| 26            | missing                                 | 3;                                      |
| 29            | class C ()                              | class C ();                             |
| 31            | defn. func ()                           | defn. func ()                           |

Re city any 10 errors (or)

**Corrected**

Program with

write the any 10 error re certification

- Sharika -