

TNI

**FIRST REVISION TEST - 2024****11** - Std**COMPUTER SCIENCE**

Time : 3.00 Hrs.

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Marks : 70

**I. Choose the correct answer.****15×1=15**

- 1)  $A + \bar{A} = ?$  a) 0 b) 1 c) A d)  $\bar{A}$
- 2) Which of the following is multiuser operating system.  
a) Windows b) Linux c) Unix d) all of these
- 3) Which type of booting occurs when a system restarts?  
a) Warm booting b) Cold booting c) Touch boot d) Real booting
- 4) There are ..... basic types of RAM. a) Four b) Three c) Two d) Seven
- 5) In ..... version of windows, plug and play feature was introduced.  
a) Windows 98 b) Windows 95 c) Windows ME d) Windows NT
- 6) Which algorithm technique behaves the contract between the designer and the user?  
a) specification b) Abstraction c) composition d) decomposition
- 7) When a loop invariant is true?  
a) at the start of the loop b) at the start and end of each iteration  
c) at the end of the loop d) All the above
- 8) Which of the following operator is extraction or get from operator?  
a) >> b) << c) <> d) # #
- 9) A block of code (compound statements) in C++ should be given within .....  
a) ( ) b) { } c) [ ] d) <>
- 10) In which method of calling a function, the address or the reference of actual parameter is copied into formal parameter?  
a) call by value b) call by reference c) inline d) none of these
- 11) A structure without name or tag is called as ..... structure.  
a) reference b) anonymous c) nested d) named
- 12) Insulation of the data from direct access by the program is called .....  
a) Data hiding b) Encapsulation c) poly morphism d) Abstraction
- 13) ..... are invoked automatically when the objects are created for a class.  
a) constructors b) destructors c) objects d) methods
- 14) ..... operator is used to access a member of a class.  
a) size of ( ) b) conditional (?:) c) dot(.) d) scope resolution (::)
- 15) A computer network security that monitors and controls incoming and outgoing traffic is .....  
a) cookies b) virus c) Firewall d) Worms

**II. Answer any six questions. Qn. 21 compulsory.****6×2=12**

- 16) Create the Truth table for OR gate.
- 17) What is HDMI?
- 18) What is data processing?
- 19) What is Radix?
- 20) What is character constant in C++?
- 21) What will be the output for the following program sinnapet?  

```
int m = 100; float x = 70.0
cout << m + x;
```
- 22) What is the use of return statment?
- 23) What is traversal in array?
- 24) Define Baseclass and derived class.

**III. Answer any six questions. Qn. 32 is compulsory.****6×3=18**

- 25) What is an operating system? Write notes on the types of operating system.
- 26) Find the Binary equivalent for 72.54

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- 27) What are the building blocks of an algorithm?  
 28) Write notes on const keyword, with suitable example.  
 29) What are the functions within <stdio.h> header file. Write brief notes on them.  
 30) What are the advantages of OOPS?  
 31) What are the points to be noted while deriving new class?  
 32) Write notes on proxy server.  
 33) Write notes on TSCII.

#### PART - IV

#### IV. Answer all the questions.

5×5=25

- 34) a) Explain the Generations of computers. (OR)  
 b) Do the following using Binary addition -24 + 32
- 35) a) Explain the characteristics of micro - processor. (OR)  
 b) Write the steps to create shortcuts in windows, applications.
- 36) a) Explain any one entry check loop with suitable example. (OR)  
 b) Write notes on the scope of variable.
- 37) a) What is the output for the following C++ program.  

```
#include <iostream>
#include <conio>
using namespace std;
Class add
{
int a, b;
Public:
int sum;
Void getdata()
{
a = 7; b = 10; sum = a + b;
}
} a1;
add a2;
int main ()
{
add a3;
a1.getdata();
a2.getdata();
a3.getdata();
cout<< a1.sum;
cout<<a2.sum;
cout<<a3.sum;
return 0;
}

```

 b) Explain the memory allocation for class objects with suitable example program.
- 38) a) Explain the different visibility modes through pictorial representation, of inheritance. (OR)  
 b) Debug the following program.  

```
#Include<iostream>
using namespace std;
class Employee;
{
private;
char name [20];
int code;
public:
void getdata()
void display()
};
Class staff : : public Employee
{
int ex;
public;
void getdata();
void display();
}
void Employee : display()
{
cout << Name : << name << endl;
cout << code : << code << endl;
}
void staff : display()
{
Employee : : display ()
}
int main()
{
staff S;
S.getdata()
S.display()
return 0;
};

```

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