IIAD22

SECOND REVISION TEST - 2025

Standard - XI

COMPUTER SCIENCE

Time: 3.00 hrs Marks:70

PART - I

I Choose the correct answer 15x1=15

1. Which one of the following is used in ATM machines?
   a) Touch Screen b) Speaker c) Monitor d) Printer
2. Which refers to the number of bits processed by a computer's CPU?
   a) Byte b) Nibble c) word length d) Bit
3. Which of the following is a CISC processor?
   a) Interl P6 b) AMD K6 c) Pentium III d) Pentium IV
4. Which of the following OS is a commercially licensed operating system?
   a) windows b) UBUNTU c) FEDORA d) REDHAT
5. If i=5 before the assignment i=i-1 after the assignment, the value of i is
   a) 5 b) 4 c) 3 d) 2
6. Which of the following is called as compile time operators?
   a) size of b) pointer c) virtual d) this
7. Which operator to be used to access reference of a variable?
   a) $ b) # c) & d) !
8. How many times the following loop will execute? for(int i=0; i<10; i++)
   a) 0 b) 10 c) 9 d) 11
9. Which function begins the program execution?
   a) isalpha() b) is digit() c) main() d) islower()
10. Cin>>n[3] ; To which element does this statement accepts the value?
    a) 2 b) 3 c) 4 d) 5
11. The mechanism by which the data and functions are bound together into a single unit is known as
    a) Inheritance b) Encapsulations c) Polymorphism d) Abstraction
12. Which of the following refers to a function having more than one distinct meaning?
    a) function overloading b) Member overloading
    c) operator overloading d) operations overloading
13. Which amongst the following is executed in the order of Inheritance?
    a) Destructor b) Member function c) Constructor d) Object
14. Which one of the following tracks a user visits a website?
    a) spyware b) cookies c) worms d) Trojans
15. E-commerce means
    a) electronic commerce b) electronic data exchange
    c) electric data exchange d) electronic commercialization

PART - II

II Answer any SIX questions. (Question number 24 is compulsory) **6x2=12**

16. Differentiate Input and output unit?
17. Write the associative laws?
18. What is a program counter?
19. Differentiate Save and Save as option?
20. Why is function an abstraction?
21. Define functions.
22. What is Polymorphism?
23. In what multi level and Multiple Inheritance differ through both contains many base class?
24. What is Salami slicing?

PART - III

III Answer any SIX questions. (Question number 33 is compulsory) **6x3=18**

25. Convert $(150)_{10}$ into Binary, then convert that Binary number to octal.
26. Differentiate PROM and EPROM.
27. List out the key features of operating system.
28. Why is main() function special?
29. What is the difference between isupper() and toupper() functions?
30. What are the rules for function overloading?
31. What are the points to be noted while deriving a new class?
32. What is the role of firewalls?
33. What TSCII?

PART - IV

IV Answer all the questions. **5x5=25**

34. a) Explain the following
i) Inkjet Printer ii) Multimedia projector iii) Bar code / QR code reader

(OR)

b) Find 1's complement and 2's complement for the following Decimal number.
i) -98 ii) -135

35. a) Explain the types of ROM.

(OR)

b) Explain the concept of a Distributed operating system along with its advantages.

36. a) Write about Binary operators used in C++.

(OR)

b) What is entry control loop? With suitable example.

37. a) Write a note on the basic concepts that support oops?

(OR)

b) Write a c++ program to find the difference between two matrix?

38. a) What are the rules for operator overloading?

(OR)

b) Explain the different visibility mode through pictorial representation.

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FIRST REVISION TEST - 2025

Standard - XI

COMPUTER SCIENCE

Time: 3.00 hrs. Reg.No. 1 1 A 0 2 2 *Marks: 70*

PART - A

I. Choose the best answer: **15×1=15**

1. Expand Post
   a) Post on self Test b) Power on software Test
   c) Power on self Test d) Power on self Text
2. How Many bytes does 1 Kilo Byte contain?
   a) 1000 b) 8 c) 4 d) 1024
3. Display devices are connected to the computer through
   a) USB port b) Ps/2 port c) SCSI Port d) VGA
4. The file management system used by Linux is
   a) ext2 b) NTFS c) FAT d) NFTS
5. The Shortcut key used to rename a file in windows
   a) F2 b) F4 c) F5 d) F6
6. Stating the input Property and the input - output relation a problem is known
   a) Specification b) Statement c) algorithm d) definition
7. Which of the following properties is true after the assignment at line 3?
   1) --i, J = 0 2. i,j ; = i + 1, j - 1 3. - - ?
   a) i + j >0 b) i + J < 0 c) i + j = 0 d) i = j
8. The smallest individual unit in a program
   a) program b) algorithm c) Flow chart d) Tokens
9. Which of the following is the exit control loop?
   a) for b) while c) do -- while d) if ..... else
10. Which of the following is the scope Operator?
    a) > b) & c) % d) : :
11. Structure definition is terminated by
    a) : b) } c) ; d) : :
12. "Write Once and use it multiple time" can be achieved by
    a) redundancy b) reusability c) modification d) Composition
13. Which of the following access Specifier protects data from inadvertent modifications?
    a) Private b) protected c) Public d) Global
14. Which of the following is the process of creating new classes from an existing class
    a) Polymorphism b) Inheritance c) Encapsulation d) Super class
15. Distributing unwanted e - mail to others is called
    a) Scam b) Spam c) fraud d) Spooging

PART - B

II. Answer any six questions. Question No.24 is compulsory. **6×2=12**

16. What are the Components of a CPU?
17. Convert $(46)_{10}$ into Binary Number.
18. What is GUI.
19. What is an in Variant?
20. Write a Short note on const keyword with example.
21. Write about strlen () function.
22. What is function overloading?
23. What is harvesting?
24. Write a while loop that displays numbers 2, 4, 6, 8, ... 20.

PART - C

III. Answer any six questions. Question No.33 is compulsory. **6×3=18**

25. Give the Truth Table of XoR gate?
26. Differentiate CD and DVD.
27. What is the difference between Copy and Move?
28. What is case - analysis?
29. Differentiate " = " and " = = ".
30. What is an array of strings?
31. Write about three types of Visibility mode.
32. Write a Short Note on Tamil Virtual Academy.
33. Write a Short program to Print following series 1 4 7 10 ..... 40.

PART - D

IV. Answer all the questions. **5×5=25**

34. a) Explain the basic components of a computer with a neat diagram. *(OR)*
    b) Find 1's complement and 2's complement for the following Decimal Number
    i) -98 ii) -135
35. a) Explain the derived gates with expression and truth table. *(OR)*
    b) Explain the Characteristics of a Micro Processor.
36. a) What are the types of Errors? *(OR)*
    b) Explain Control statement with Suitable example.
37. a) Explain Call by value method with Suitable example. *(OR)*
    b) Write a C++ program to find the difference between two matrix.
38. a) Mention the differences between Constructor and destructor? *(OR)*
    b) Explain the different types of Inheritance.

COMMON HALF YEARLY EXAMINATION - 2024

Standard - XI

Time : 3.00 hrs **COMPUTER SCIENCE** **Marks: 70**

Part - A

I. Choose the best answer:- 15×1=15

1) What is smallest size of data represented in a CD
   a) blocks b) sectors c) pits d) tracks
2) 2^40 is referred as
   a) Kilo b) Tera c) Petta d) Zetta
3) Operating system provides how many levels of securities to the user
   a) 2 b) 3 c) 4 d) 1
4) Which of the following operator is extraction operator in C++?
   a) << b) >> c) <<< d) >>>
5) If two strings are equal then strcmp () returns which value?
   a) 0 b) 1 c) -1 d) 5
6) A constructor that accepts no parameter is called as
   a) Parameterized constructor b) Copy constructor
   c) default constructor d) non parameterized constructor
7) Which is the first Tamil programming language
   a) Tamilpori b) Ezhil c) Kamban d) Vani
8) Disturbing unwanted email to others is called
   a) Scam b) Spam c) Fraud d) Spoofing
9) Expand POST
   a) POST ON SELF TEXT b) POST ON SOFTWARE TEST
   c) POWER ON SELF TEST d) POWER ON SELF TEXT
10) Which of the following is not the part of a microprocessor unit
   a) ALU b) Control Unit c) Cache memory d) Register
11) Which is the default folder for many windows applications to save your file.
   a) My documents b) My pictures c) Documents and settings d) My computer
12) Which function is used to check whether the character is numeric or alphabet?
   a) isalpha() b) isdigit() c) isalnum() d) islower()
13) int Rev=[7,10,84,11,83] how many elements are there in this array?
   a) 2 b) 5 c) 4 d) 6
14) Write once and use it multiple times can be achieved by
   a) Redundancy b) Reusability c) Modification d) Composition
15) Inheritance is a process of creating new class from
   a) Base class b) Abstract c) Derived class d) Function

Part - B

II. Answer any six questions. Question No. 24 is compulsory: 6×2=12

16) What is the function of an ALU?
17) What is known as multitasking
18) List the operators that cannot be overloaded
19) What is a program counter

20) Write about strlen() function
21) What are standard icons
22) What are Warez?
23) What is an invariant?
24) Convert the following if statement into conditional statement

```
if (marks>=60)
grade='A'
else
grade='B'
```

Part - C

III. Answer any six questions. Question No. 33 is compulsory: 6×3=18

25) Write a note on recycle bin?
26) What do you mean by overriding?
27) What is called anonymous structure give an example?
28) Differentiate cold booting and warm booting?
29) List out the features of procedural programming.
30) Classify the microprocessor based on the size of the data?
31) Write short note on pow() function in C++
32) Write the syntax and purpose of switch statement
33) Write a C++ program to print multiplication table of a given number.

Part - D

IV. Answer all the questions:- 5×5=25

34) a) Discuss the various generation of computer. [or]
    b) i) Add: 1101010+101101 ii) Substract: 1101011 - 111010
35) a) Explain the various versions of windows operating system. [or]
    b) Explain the fundamental gates with expression and truth table.
36) a) What is entry control loop explain anyone of the entry control loop with the suitable example. [or]
    b) Write a program to accept any integer number and reverse it
37) a) Explain the different visibility mode through pictorial representation. [or]
    b) i) What are the rules for function overloading
       ii) State the rules for operator overloading
38) a) Explain the different types of inheritance [or]
    b) 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;}}
```

```
classB:: public A()
{
PUBLIC
voidfunc()
{intb1:b2:b3;
A::getdata[];
b1=a1;
b2=a2;
b3=a3;
```

```
cout<<b1<<'\t'<<b2
<<'t\'<<b3;}
void main()
{
B der;
der1:func();
}
```

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11A022

SECOND MID TERM TEST - 2024

STANDARD - XI

COMPUTER SCIENCE

TIME: 1.30 hrs MARKS:50

PART - A

I Choose the best answer (All questions are compulsory) 10x1=10

1. Which of the following header file defines the standard I/O predifined functions
   a) Stdio.h b) Math.h c) String.h d) Ctype.h
2. Which of the following is the scope operator
   a) > b) & c) % d) ::
3. Cin>>n[3]; to which element does this statement accept the value.
   a) 2 b) 3 c) 4 d) 5
4. When accessing a structure member, the identifier to the left of the dot operator is the name of
   a) Structure variable b) Structure tag
   c) Structure member d) Structure Function
5. Which of the following is a user defined data type
   a) class b) float c) int d) object
6. Insulation of the data from direct access by the program is called as
   a) data hiding b) Encapsulation c) Poly morphism d) Abstraction
7. Which of the following supports the transitive nature of data.
   a) inheritance b) Encapsulation c) polymorphism d) Abstraction
8. The variables declared inside the class are known as
   a) data b) inline c) method d) attributes
9. A member function can call another member function directly without using the dot operator called as
   a) Sub function b) Sub member
   c) nesting of member function d) Sibling of member function
10. Which of the following access specifier protects data from inadvatent midificeations?
    a) private b) protected c) public d) Global

PART - B

II Answer any five of the following. Question No. 17 is compulsory. 5x2=10

11. Write about Strlen() function.
12. What are importance of void data type?
13. What is string?
14. What is the Syntax to declare two - dimensional array?
15. Differentiate classes and objects.
16. What is polymorphism?
17. Write down the importance of destructor.

PART - C

III Answer any five Questions. Question number 22 is compulsory. 5x3=15

18. What is the difference between isupper() and to upper() functions?
19. Write about Strcmp() function.
20. Define an Array? What are the types?
21. How to access members of a structure? Give example.
22. Rewrite the following program after removing the syntax errors if any and underline the errors.

```
# include < iostream>
$ include < stdio.h>
class my stud
{int Studid = 1001;
    Char name [20];
Public
my shud()
{ }
Void register()
{cin>>stdid; gets (name);
}
void.display ()
{Cout<<studid<<";"<<name <<endl;}
}
int main()
{my stud ms;
register.ms();
ms.display();
}
```

23. What is paradigm? Mention the different types of paradigm.
24. Define information hiding.

PART - D

IV Answer all the Questions. 3x5=15

25. a) Explain call by value method with suitable example. *(OR)*
    b) Explain scope of variable with example.
26. a) Write a c++ program to add two distance using the following structure definition.

```
Struct Distance {
int feet;
float inch:
}d1,d2,Sum;
```

(OR)

b) Write a c++ program to find the difference between two matrix.

(OR)

27. a) What are the advantages of oops.
    b) Mention the difference between Constructor and destructor.

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COMMON QUARTERLY EXAMINATION - 2024

STANDARD - XI

COMPUTER SCIENCE

TIME: 3.00 hrs MARKS:70

PART - I

I Answer all the Questions 15x1=15

1. First generation Computers used _____
   a) Vacuum tubes b) Transistors c) Integrated circuits d) Microprocessors
2. 2^50 is referred as _____
   a) kilo b) Tera c) Peta d) Zetta
3. NOR is a combination of?
   a) NOT(OR) b) NOT(AND) c) NOT(NOT) d) NOT(NOR)
4. Which is the fastest memory?
   a) Hard disk b) main memory
   c) Cache memory d) Blue-Ray disc
5. The shortcut key used to rename file in windows _____
   a) F2 b) F4 c) F5 d) F6
6. Operating system is a _____
   a) Application Software b) Hardware
   c) System Software d) Component
7. Stating the input property and the input - output relation a problem is known _____
   a) specification b) statement c) algorithm d) definition
8. How many times the loop is iterated?

```
i: = 0
While i ≠ 5
    i: = i+1
```

   a) 4 b) 5 c) 6 d) 0
9. A loop invariant need not be true _____
   a) at the start of the loop b) at the start of each iteration
   c) at the end of each iteration d) at the start of the algorithm
10. If mxa + nxb 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
11. Who coined C++?
    a) Rick Mascitti b) Rick Bjarne c) Bill Gates d) Dennis Ritchie
12. Which of the following operator is extraction operator in C++?
    a) >> b) << c) <> d) ^^
13. Which of the following operator returns the size of the data type?
    a) Size of () b) int() c) long() d) double ()
14. This can be used as alternate to endl Command _____
    a) \t b) \b c) \0 d) \n
15. How many types of iteration statements?
    a) 2 b) 3 c) 4 d) 5

PART - II

II Answer any six questions. (Question No.24 is compulsory) **6x2=12**

16. What are the components of a CPU?
17. Convert $(46)_{10}$ into Binary number?
18. What are the parameters which influence the characteristics of microprocessor?
19. What is a GUI?
20. What is known as Multitasking?
21. Define an algorithm?
22. What is an invariant?
23. What is a null Statement and Compound Statement?
24. The following constants are of which types?
    i) 39 ii) 032 iii) OXCAFE iv) 04.14

PART - III

III Answer any six questions. (Question No.33 is compulsory) **6x3=18**

25. Write the characteristics of Sixth generation?
26. Write the De Morgan's law?
27. Classify the microprocessor based on the size of the data?
28. List out the Key features of operating system.
29. Differentiate copy and move.
30. What is case analysis?
31. What is the use of a header file?
32. Write the Syntax and purpose of switch Statement?
33. Evaluate the following c++ expressions 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;

PART - IV

IV Answer all the Questions. **5x5=25**

34. a) Explain the basic components of a computer with a neat diagram?

(OR)

b) Write the specification of an algorithm hypotenuse whose inputs are the lengths of the two shorter sides of a right angled triangle, and the output is the length of the third side.

35. a) FInd 1's complement and 2's complement for the following Decimal number.
    a) -98 b) -135

(OR)

b) List out the points to be noted while creating a user interface for an operating system?

36. a) Explain the Types of ROM.

(OR)

b) Write about Binary Operators used in c++?

37. a) Write the procedure to create shortcut in windows OS?

(OR)

b) Explain the fundamental gates with expression and truth table?

38. a) What are the types of Errors?

(OR)

b) What is an entry control loop? Explain any one of the entry controlled loop with suitable example.

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 11A022

FIRST MID TERM TEST - 2024

STANDARD - XI

TIME: 1.30 HRS COMPUTER SCIENCE MARKS:50

PART - A

I Choose the correct answer 10x1=10

1. Name the Volatile memory
   a) ROM b) PROM c) RAM d) EPROM
2. Expand POST
   a) Post on self Test b) Power on software Test
   c) Power on self Test d) Power on self Text
3. For 1101_2 the equalent Hexadecimal equivatent is?
   a) F b) E c) D d) B
4. Which amongst this is not a Octal number?
   a) 645 b) 234 c) 876 d) 123
5. A + A = ?
   a) A b) 0 c) 1 d) $\overline{A}$
6. What is the smallest size of data represented in a CD?
   a) blocks b) Sectors c) pits d) tracks
7. Which of the following operating systems support mobile devices?
   a) Windows 7 b) Linux c) BOSS d) iOS
8. An example of single task operating system is
   a) Linux b) Windows c) MS-DOS d) Unix
9. The short cut key used to rename a file in Windows
   a) F2 b) F4 c) F5 d) F6
10. If 0<i before the assignment i : = i - 1 after the assignment, we can conclude that
    a) 0<i b) 0≤i c) i = 0 d) 0≥i

PART - B

II Answer any 5 Questions. Question number 17 is compulsory. 5x2=10

11. What is a Computer?
12. Differentiate Input and output unit.
13. Write the I's complement procedure.
14. Write the associative laws?

15. What is a program counter?
16. What is a GUI?
17. Differentiate save and save as option.

PART - C

III Answer any 5 Questions. Question number 22 is compulsory. 5x3=15

18. What is an input device? Give two examples.
19. Write short on impact printer.
20. Convert $(150)_{10}$ into Binary, then convert that Binary number to Octal.
21. Write the De Morgan's law.
22. Differentiate CD and DVD.
23. List out the Key features of operating system.
24. Write a note on Recycle bin.

PART - D

IV Answer all the Questions. 3x5=15

25. a) Discuss the Various generations of Computers.

(OR)

b) i) Add $1101010_2 + 101101_2$

ii) Subtract $1101011_2 - 111010_2$

26. a) Explain the fundamental gates with expression and truth table.

(OR)

b) Explain the Types of ROM.

27. a) Explain the process management algorithms in operating system.

(OR)

b) Explain the different ways of finding a file or Folder.

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