

## CMS MATRICULATION HIGHER SECONDARY SCHOOL, GANAPATHY, CBE-6

## STD : XI COMPUTER SCIENCE REDUCED SYLLABUS QUESTION BANK (BOOKBACK)

## REDUCED SYLLABUS VERY SHORT ANSWER FOR LESSON 9-18 ( 2 MARKS )

**Lesson 9 :- INTRODUCTION TO C++**

- 1.What is mean by a token ? Name the token available in C++ .
- 2.What are keywords ? Can keywords be used as identifiers ?
- 3.The following constants are of which type ?  
(i)39 (ii) 032 (iii)0XCAFE (iv)04.14
- 4.Write the following real constants into exponent form:  
(i)23.197 (ii)7.124 (iii)0.00005 (iv)0.319
- 5.Assume n=10;what will be result of n++ and -n;?
- 6.Match the following

A	B
(a)Modulus	(1)Tokens
(b)Separators	(2)Remainder of a division
(c)Stream extraction	(3)Punctuators
(d)Lexical Units	(4)get form

**Lesson 10:-FLOW OF CONTROL**

- 1.What is a null statement and compound statement?
- 2.What is selection statement? Write it's types.
- 3.Correct the following code segment :  
if (x=1)  
    p=100;  
else  
    p=10;
- 4.What will be the output of the following code:  
int year;  
cin>>year;  
if (year % 100 == 0)  
if ( year % 400 == 0)  
cout<< "Leap";  
else  
cout<< "Not Leap year";  
If the input given is (i) 2000 (ii) 2003 (iii) 2010?
- 5.What is the output of the following code?  
for (int i=2; i<=10; i+=2)  
cout<< i;
- 6.Write a for loop that displays the number from 21 to 30.
- 7.Write a while loop that displays the numbers 2, 4, 6, 8.....20
- 8.Compare an if and a ? : operator.

**Lesson 11:-FUNCTIONS**

- 1.Define functions.
- 2.What are importance of void data type?
- 3.What is Parameter and list its types?
- 4.Write a note on Local Scope.

### **Lesson 12:-ARRAYS AND STRUCTURES**

- 1.What is Traversal in an Array?
- 2.What is String?
- 3.What is the syntax to declare two – dimensional array.

### **Lesson 13:-INTRODUCTION TO OBJECT ORIENTED PROGRAMMING TECHNIQUES**

- 1.Differentiate classes and objects.
- 2.What is polymorphism?
- 3.How is encapsulation and abstraction are interrelated?
- 4.Write the disadvantages of OOP.

### **Lesson 14:- CLASSES AND OBJECTS**

- 1.What are called members ?
- 2.What is the difference between the class and object in terms of loop?

### **Lesson 15:-POLYMORPHISM**

- 1.What is function overloading?
- 2.List the operators that cannot be overloaded.
- 3.Does the return type of a function help in overloading a function ?
- 4.What is the use of overloading a function?

### **Lesson 16:-INHERITANCE**

- 1.What is inheritance?
- 2.What is base class?
- 3.Why derived class is called power packed class?
- 4.In what multilevel and multiple inheritance differ though both contains many base class?
- 5.What is the difference between public and private visibility mode?

### **Lesson 17:-COMPUTER ETHICS AND CYBER SECURITY**

- 1.What is harvesting?
- 2.What is Warez?
- 3.Write a short note on cracking.
- 4.Write two types of cyberattacks.
- 5.What is a cookie?

### **Lesson 18:-TAMIL COMPUTING**

- 1.List the search engines supported by Tamil language.
- 2.What are the keyboard layouts used in Android?
- 3.Write a short note about Tamil Programming Language.
- 4.What is TSCII?
- 5.Write a short note on Tamil Virtual Academy .

**Ln-9 to 18 short answer questions ( 3 MARKS)****LN-9**

1. Describe the differences between keywords and Identifiers.
2. Is C++ case sensitive? What is meant by the term “case sensitive”?
3. Differentiate “=” and “==”.
4. What is the use of a header file?
5. Why is main function special?
6. What are arithmetic operators in C++? Differentiate unary and binary arithmetic operators. Give example for each of them.
7. How relational operators and logical operators are related to one another?
8. 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)  $z *= x * m + x;$

**LN-10**

1. Convert the following if-else to a single conditional statement:  

```
if (x >= 10)
a = m + 5;
else
a = m;
```
2. Rewrite the following code so that it is functional:  

```
v = 5;
do;
{
total += v;
cout << total;
while v <= 10
```
3. Write a C++ program to print multiplication table of a given number.
4. Write the syntax and purpose of switch statement.
5. Write a short program to print following series:  
(a) 1 4 7 10..... 40

**LN-11**

1. What is Built-in functions?
2. What are the information the prototype provides to the compiler ?
3. What is default arguments ? Give example.

**LN-12**

1. Define an Array ? What are the types?
2. Write note an Array of strings.

**LN-13**

1. What do you mean by modularization and software reuse?
2. Define information hiding.

**LN-14**

1. Rewrite the following program after removing the syntax errors if any and underline the errors:  

```
#include<iostream>
#include<stdio>
class mystud
{ intstudid =1001;
char name[20];
public
```

```

mystud() { }
void register ( )
{ cin>>stddid; gets(name); }
void display ( )
{ cout<<studid<<": "<<name<<endl;}
}
int main( )
{ mystud MS;
register.MS( );
MS.display( );
}

```

**LN-15**

1. What are the rules for function overloading?
2. How does a compiler decide as to which function should be invoked when there are many functions? Give an example.
3. What is operator overloading? Give some examples of operators which can be overloaded.

**LN-16**

1. What are the points to be noted while deriving a new class?

**LN-17**

1. What are the guidelines to be followed by any computer user?
2. What are ethical issues? Name some.

**Ln 9 to 17 long answer questions****Ln-9**

1. Write about Binary operators used in C++.
2. What are the types of errors?

**Ln-10**

1. What is an entry control loop? Explain any one of the entry controlled loop with suitable example.
2. Write a program to find the LCM and GCD of two numbers.
3. Write programs to find the sum of the following series:
  - (a).  $x - x^2/2! + x^3/3! - x^4/4! + x^5/5! - x^6/6!$
  - (b).  $x + x^2/2 + x^3/3 + \dots + x^n/n$
5. Write a program to find sum of the series  
 $S = 1 + x + x^2 + \dots + x^n$

**Ln-11**

1. Explain call by value method with suitable example.
2. What is recursion? Write a program to find the factorial of the given number using recursion.
3. What are the different forms of function return? Explain with examples.
4. Explain scope variable with example.
5. Write a program to accept any integer number and reverse it.

**Ln-12**

1. Write a C++ program to find the difference between two matrix.

**Ln-13**

1. What are the advantages of OOPs?
2. Write a note on the basic concepts that supports OOPs?

**Ln-14**

1. Write the output of the following
 

```

#include<iostream>
Using namespace std;
Class student

```

```

{
intrno,marks;
public:
student(intr,int m)
    {cout<<"Constructor"<<endl;
rno=r;
marks=m;
}
void printdef()
    {
    Marks=marks+30;
cout<<"Name:Bharathi"<<endl;
cout<<"Roll no:"<<rno<<"\n";
cout<<"Marks:"<<marks<<endl;
    }
};
int main()
    {
student s(14,70);
s.printdet();
cout<<"Back to Main";
return 0;
}

```

**Ln-15**

1.What are the rules for operator overloading?

**Ln-16**

1.Explain the different types of inheritance.

2.Write the output of the following

#include<iostream>

Using namespace std;

```

class A
{
    protected:
Int x;
    Public:
Void show()
{cout<<"x="<<x<<endl;}
A()
{cout<<endl<<"I am class A"<<endl;}
~A()
{cout<<endl<<"Bye";};
}
class B:public A
{protected:
Int y;
    Public:
B(int xl,int yl)
{x=xl;
Y=yl;}
B()

```

```

{ cout<<endl<<"I am class B"<<endl;}
~B()
{ cout<<endl<<"Bye";}
void show()
{cout<<"x="<<x<<endl;
Cout<<"y="<<y<<endl; }};
int main()
{AobjA
  B objB(30,20);
  Obj.show()
  Return 0; }

```

### 5.Debug the following program

```

#include<iostream.h>
#include<conio.h>
ClassA()
{public;
  Int a1,a2:a3;
  Void getdata[]
  { a1=15;a2=13;a3=13;}
classB::public A()
{ PUBLIC
  voidfunc()
  {int b1:b2:b3;
    A::getdata[]
    b1=a1;
    b2=a2;
    b3=a3;
  Cout<<b1<<'t'<<b2<<'t'<<b3;}
  void main()
  { B der;
    der1:func();}

```

### Ln-17

- 1.What is piracy?Mention the type of piracy?How can it be pretended?
- 2.What are the various crimes happening using computer?

\*\*\*\*\* ALL THE BEST \*\*\*\*\*

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