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STD: XI Marks: 50 / Time: 1.30 Hrs.	COMPU'	MONTHLY TEST TER SCIENCE	Lessons: 14 to 18
		RT– I	103/1-10
I. Choose the correct answers	and the state of t		$10 \times 1 = 10$
1. The member function define	d within the class		inctions.
a) inline b) N	Ion inline	c) Outline	d) Data
2. class product			
{			
int code, quantity;			
float price;			
};			
int main()			
{			
product p1, p2;			
return 0;			
}			
How many bytes will b	e allocated with m	emory space of obje	ct p1?
	bytes	c) 12 bytes	d) 2 bytes
3. Which of the following cons			
add display(add &); // add			
class name	15 u		
a) Default constructor		b) Parameterized co	onstructor
c) Copy constructor		d) Non Parameteriz	
4. Which of the following refer	re to a function has		
a) Function Overloading	.s to a function ha	b) Member overloa	
c) Operator overloading		d) Operations overl	. •
5. Which of the following is no	at true with respect		_
a) The default arguments	of overloaded fur	ections are not consid	lared for overloading
			icicu ioi overioading
b) The overloaded function			
c) Destructor function ca			
d) The return type is also			-0
6. Which amongst the following			
	lember function	c) Constructor	d) Object
7. Which of the following is us			
1	ointer	c) constructor	d) member function
8. Commercial programs made			
a) freeware b) w		c) free software	d) software
9. Which of the following is no			
	rojans	c) spyware	d) cookies
10. The first Tamil programming		•	
a) Tamizh b) E		c) Thamizpori	d) Unicode
	PART-		
II. Answer any five questions			$5 \times 2 = 10$
11. Write down the importance of		12. Write the General	form of a class definition.
13. List the operators that cannot 1	oe overloaded.		

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14. Define UNICODE.
15. Why derived class is called power packed class?
                                            17. Write down the syntax of operator overloading?
16. What is harvesting?
                                            PART-III
                                                                                         5 \times 3 = 15
III. Answer any five questions. Question No. 24 is compulsory:
18. Differentiate structure and class though both are user defined data type.
                                                           20. What do you mean by overriding?
19. Discuss the benefits of constructor overloading?
21. What are the guidelines to be followed by any computer user?
22. Write a short note on Tamil Virtual Academy.
23. What are the rules for operator overloading?
24. Rewrite the following program after removing the syntax errors if any and underline the
   errors:
    #include<iostream>
    $include<stdio>
    class mystud
            int studid =1001;
            char name[20];
          public
            mystud() {}
            void register ()
            {cin>>stdid; gets(name); }
     void display ()
    {cout<<studid<<": "<<name<<endl;}
     int main()
     { mystud MS;
        register.MS();
        MS.display();
                                             PART-IV
                                                                                       3 \times 5 = 15
IV. Answer all the questions.
                                                                           (OR)
25. a) Mention the differences between constructor and destructor.
   b) What is function overloading? Write the rules for function overloading.
26. a) Write the different types of cyber attacks.
                                                                          (OR)
   b) Write note on i) e-governance
                                       ii) e-library
27. a) Debug the given C++ program to get the following output:
     Output:
      Sum constructor:
      Difference constructor:
      1. Add:
      2. Difference:
      Enter your choice: 2
      Enter the values for a and b: 20 60
      The difference of two numbers are:-40
      Difference Destructor:
      Sum destructor:
      ?include<iostream>
      using namespace std
      class sum
```

```
int a,s;
protected:
int b;
publicly:
void sum()
a = b = s = 0;
cout << "\n Sum Constructor:";
void input ( );
cout << "\n Enter the values for a and b: ";
cin>>a>>b;
void addition ()
s = a + b;
cout << "\n The sum of two numbers is :" << s;
Void minus() '
return a-b;
+sum()
cout << "\nSum Destructor";
class difference#public sum
 int d1;
 public:
 difference()
 d = 0;
 cout << "\n Difference constructor :";
void sub()
input();
d= minuses();
cout << "\n The difference of two numbers are : " << d;
~difference()
cout << "\nDifference Destructor";
int main[]
difference obj;
int ch = 0;
```

```
cout << "\n1. Add:\n2. Difference:";
     cout << "\n\nEnter your choice ";
     cin>>ch;
     switch(ch);
      case '1':
      obj.input();
      obj.addition();
      break;
      case '2':
      obj.sub();
      break;
      return 0;
                                                       (OR)
b) Write the output of the following:
   #include<iostream>
   using namespace std;
   class complex
    { int real, img;
     public:
   void read()
    cout << "\nEnter the REAL PART : ";
    cin>>real;
    cout<<"\nEnter the IMAGINARY PART : ";</pre>
    cin>>img;
   complex operator +(complex c2)
     complex c3;
     c3.real=real+c2.real;
     c3.img=img+c2.img;
     return c3;
      void display()
    { cout<<real<<"+"<<img<<"i"; }
   int main()
      complex c1,c2,c3;
      int choice, cont;
      cout<<"\n\nEnter the First Complex Number";
     cout<<"\n\nEnter the Second Complex Number";
      c3=c1+c2; // binary + overloaded
     cout << "\n\nSUM = ";
     c3.display();
     return 0;
```