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4

### Sample Paper – 2010 Class – XI Subject – Computer Sience

Time: 3 Hrs F.M: 70

#### **General Instructions:**

- 1. All Questions are compulsory.
- 2. Programming Language is C++.
- 1. Write a program in c++ to calculate the commission for the salesmen. The commission is calculated as follows.

4

Sales	Commission
Made	Rate
30001 onwards	15%
22001 to 30000	10%
12001 to 22000	7%
5001 to 12000	3%
0 to 5000	0%

- 2. Write a program to calculate and print the roots of a quadratic equation ax<sup>2</sup>+bx+c=0.
- 3. A bank accepts a fixed deposit for one year or more and the policy it adopts on interest is as follows:
  - i) if a deposit less than Rs. 2000 and for 2 or more years , the interest rate is five percent compound annually.
  - ii) if a deposit is Rs. 2000 or more but less than Rs. 6000 and for 2 or more years, the interest rate is seven percent compounded annually.
  - iii) if a deposit is more than or equal to Rs. 6000 and for 1 year or more , the interest rate is eight percent compounded annually.
    - iv) on all deposits for 5 years or more, interest is ten percent compounded annually.
  - v) on all other deposits not covered above conditions, the interest is three percent compounded annually.

Given the amount deposited and number of years, write a program to calculate the money in the costumers account at the end of the specified time.

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if(a)

b=a++ -1;

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4. Write a program in c+through keyboard.	+ using	conditional operator to find the largest of three numbers entered	
	_	ntest requires teams of 5 members each. Write a program that ask yers and then display the total number of teams and number of	
6. Write a program to ca given by the user.	lculate	the area of a circle or triangle or rectangle according to the choice	4
7. What will be the outpool	ut of th	e following code fragment?	2
•			
int yea			
cin>>	•	0)	
П(уеа	r % 100 、	==0)	
	l if/vea	r%400==0)	
	п(уса	cout<<"Leap";	
	}	, and a second of the second o	
else	,		
	cout<	<" Not a century year.	
If the input given is			
	i)	2000	
	ii)	1900	
	iii)	1971	
<ul><li>8. What is dangling else pr</li><li>9. Predict the output of th</li><li>i) int a, b=3;</li><li>cin&gt;&gt;a;</li></ul>		How is it overridden? Give example. ving code fragment:	2

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```
cout<< "a="<<a<<endl;
               cout<<"b="<++b<<endl;
       When the value of a is input as 6.
       ii)
               cin>>a;
               if(a=5)
                       cout<<"Five";
               else
                       cout<<" Not Five";
  if the input given is 7.
  10. Distinguish between a unary, binary and a ternary operator. Give example of c++ operators for
each one of them.
  11. What is type conversion? How many types of type conversion is allowed in c ++. Explain with
                                                                                                               2
example.
  12. Name the header files required for successful execution of a program that uses the following
components:
                                                                                                               2
                               ii) setprecision()
                                                                       iv) fabs()
               i) endl
                                                       iii) ceil()
  13. What is the effect of access specifiers on data type?
       How does it affect the floating point data type?
                                                                                                               2
  14. What are the differences between syntax and runtime errors? Give example.
  15. What is the memory requirement for the following constants?
                       i) "Meera\'s Birthday" ii) "\?" iii) '\a' iv) "my name"
  16. Write the equivalent C++ expression for the following expressions:
                                                                                                               2
               \tan^{-1} \underline{1} + \tan^{-1} \underline{1} + \tan^{-1} \underline{1} + \tan^{-1} \underline{1} = \underline{\pi}
       3 5 7
ii) y = [\sin x]^{\tan x} + [\cos x]^{\sec x}
 17. What are constants? How these are different from ordinary variables?
                                                                                                               2
  18. Predict and correct the logical error present in the following code fragment:
  2
               if(k=1)
                       cout<<"ONE";
               else
                       cout<<" NOT ONE";
  19. Define the following terms:
                                                                                                               3
               i) Refference Variable
               ii) Abstraction
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```



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iii) pointer 20. Predict the output of the following codes: (Make sure the Syntax is correct) 3 cout<<" Be careful"; cout<<"You might commit a mistake"; ii) if(!5) cout<<" How many times"; else cout<<"No more please"; cout<<" O.K"; iii) if(0) cout<<"Third time again"; cout<<"Last chance"; else cout<<" Very good"; 21. Write alternate code for the following codes using 3 i) Only if ii) Using conditional operator if(a==0)cout<<" Zero"; if(a==1)cout<<" One"; if(a = = 2)cout<<" Two"; 22. Fill in the blanks: 3 i) (100011101)<sub>2</sub>=( )10 ii) (354)8=( )2 iii) (A6D12)16=(\_\_\_\_)8 23. Write the 1's Complement form of the following binary numbers: 1 100010111, 11101 24. Expand the following: BIOS, ISCII, SJN, SRAM 1 25. Write shortly about the 3rd generation computers. 1 26. What do you mean by Non-Preemptive scheduling? 1 27. Write the Name of 4 Operating systems that are used world wide. 1 28. What do you mean by utility software? Give one example. 1 28. What is BOSS? Write the names of software of this family. 1 29. Define the term Booting. 1 30. What is a Path? 1 31. What is a keyword? Is 'ASM' a key word? 1