

Sample Paper - 2008
Class- XII
Subject – Computer Science

Max Marks 70

Duration 3 hrs

Note:- All questions are compulsory
Figures to right indicate full marks
Use c++ as programming language
This question paper contains 31 questions

Q1)

- a) Name any 4 internal Dos commands ? 2
- b) What are wild cards ? 2
- c) Define operating system ? 2

Q2)

- a) What stylistic guidelines may be followed to design a good program ? 2
- b) What do you mean by syntax error? Mention any 2 syntax errors occurring in any cpp program 3
- c) Give different stages of program development ? 3
- d) Why are logical errors harder to locate ? 2

Q3)

- a) India 12 a is correct or incorrect variable name in cpp 1
- b) Which loop is an exit control loop in c++ ? 1
- c) Define an array 1
- d) Function definition in cpp is followed by ; (semicolon). True or False 1
- e) What does following function prototype means 2
 - a) void findsum(int &,int)
 - b) int value(int x,int y, int r=5);
- f) What output does following code fragment produce 2
 - :
 - :
 - :
 - int stock[]={ 10,22,15,12,18};
 - int total=0;
 - for(int I=0; I<5; ++I)

```

    { if(stock[I]>15)
total+=stock[I];
}
cout<<total;

```

g) An array emp[20] contains the number of employees joined in different years . Write a short program to find the number of years in which no employee joined 3

h) Evaluate $x=++y + 2y$ if $y=6$ 3

i) Give name of header files to which following inbuilt functions belong to 2
 1) exit() 2) strcmp() 3) ceil 4) abs()

j) What will be output of following code 3

```

int sum(int arr[], int size)
int main( )
{ int val[]={ 1,3,5,7,9,11,13,15,17,19};
  int s1=0,s2=0;
s1=sum(val,10);
s2=sum(val+4,6);
cout<<s1<<" "<<s2;
return 0
}
int sum(int arr[], int size)
{ for(int I=0,s=0,I<size;++I)
  s+=arr[I];
return s;
}

```

k) Explain output of following program 3

```

#include<iostream.h>
void execute(int &x,int y=200)
{ int temp=x+y;
x+=temp; if(y!=200)
cout<<temp<<" "<<x<<" "<<y;
}
void main( )
{ int a=50, b=20;
execute(b); cout<<a<<b<<"\n";
execute(a,b); cout<<a<<b<<"\n";
}

```

l) Write a cpp program to generate fibonacci series 4

m) Find syntax errors if any in following program(Assume all header files are present) 2

```

    main()
{   int sum(int,int,int)
    sum(3,4);
cout<<"answer=7";
}
int sum(int a, int b, int c);
{   int d;
d=a+b+c;
}

```

n) Find syntax error(s) if any in following program (Assume all header files are present) 2

```

main[]
{ int c;
switch( c );
case 1.5: { cout<<" India is great\n";
           } break;
'case' 2: { cout<<" hello\n";
           } break;
} // end of main
} // end of switch

```

o) Design your own function to compute length of string(do not use ready made function) 4

p) Construct function prototype for descriptions given below 4

- a) rarb() takes no argument and has no return value
- b) mains() takes a float argument and returns an integer
- c) sum() takes an int array and int value and returns a long result
- d) check() takes a string argument and returns a long result

q) List 4 keywords of c++ 2

r) Write a cpp program to compute simple interest 2

s) What is difference between / and % operators in c++ ? 2

Q4)

a) Convert $(29865)_{10}$ to $(?)_{16}$ 2

b) Convert $(1001011110100)_2$ to $(?)_8$ 1

c) Explain inkjet printer 2

d) Explain Cache memory 3

e) Explain passive heat sinking

2

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