

Sample Paper 2014
SUB: COMPUTER SCIENCE
CLASS XI

Time: 3Hrs

Marks: 70

- Q1. a. What is meant by pretty printing? 1
- b. What do you mean by Syntax error,run time errors, semantic errors explain with eg.3
- c. In the following code, what will be the possible output from the following options i to iv ?Justify the answer. 2

```
# include<iostream.h>
#include<conio.h>
#include<stdlib.h>
const int LIMIT=5;
void main()
{
    randomize ( );
    int Points;
    Points=100 + random (LIMIT);
    for(int P=100;P<=Points; P++)
        cout<<P<<"#";
        cout<<endl;
}
```

- i) 103#102#101#100#
- ii) 100#101#102#103#
- iii) 100#101#103#102#104#
- iv) 104#103#102#101#100#

- e. Find the output of the following code snippet. 2

```
#include <iostream.h>
void main()
{
```

```
long num = 123543211, result =0, digit;
do {
    digit = num % 10;
    result += digit;
    num /= 10;
} while (num !=0);
cout << "output =" << result++ << endl;
}
```

- Q2. a. List the problem solving methodology and techniques in programming. 1
- b. What are the different types of Documentation explain with eg? 2
- c. Write the characteristics of a good program. 2
- d. Explain the stages of program Development Process. 2

Q3. a. Mention the header files for the following built in functions. 2

a) getch() b) setw() c) puts() d) atoi ()

b. Find the errors in the following statements? 2

i. const int z; ii. char ch=z; 3. long float x; 4. cin>>b>>'n';

c. Evaluate the following, where a, b, c are integers and d, f are floating point numbers. 2

The value of a=10, b=5 and d=6.5

(i) $f = a * b + a/b$

(ii) $c = d+a + b \% a + ++a$

d. What is encapsulation? Explain the concept with the help of an example. 2

e. What is the output of the following? 3

```
i) #include<iostream.h>
void main ( )
{
    int ch=30;
    cout << ++ch <<"\n"<< ch<<"\n"<< ++ch;
}
```

1) What output does the above code fragment produce?

- Q4. a. What is type casting explain with eg 2
 b. compare while with dowhile loop with eg
 c. convert the following as directed (complete the source code) 2 x 2=4

i. if-else to switch statement

```
int x,y,z;
cin>>x>>y>>z;
if (x==1)
cout<<x*y+5;
else if (x==2)
cout<<x+2+y;
else if (x==3)
{
z=(x*y*6)/3;
cout<<z;}
else cout<<x<<' '<<y<<' '<<z;
```

ii. convert for to do while loop

```
for(i=1;i<=n;i++)
{
If(n%i==0)
Cout<<i<<" ";
Cout<<"End of loop";
}
```

- Q5. a. Explain the following terms: 6
 Define tokens, identifier, keywords, literals, variable and function with eg
 b. Write short note on. 6

1. Comparison if else and switch case statement.
2. array and structure
3. break and continue.

- c. Explain fundamental and derived data types? 2
 d. Explain the use of relational operators with truth table and example. 3

- Q6. 2
 Wap to input 2matrices and multiply them

b. Write a program using structures to store the information of the employees and count number of employees having salary between 5000 and 15000. Details of employees include eno, enm, salary. 3

c. Write a program to read a matrix of order 3 x 3 and do the following convert it to 1d array of size 9 3

d. Write a C++ program using function to find the sum of both diagonal elements separately 4

Q7.

a. Differentiate between call by value and call by reference with help of an example. 3

b. Write a program to illustrate the swapping of two values using call by Reference method. 2

c. what is difference between function returning a value and void functions 2

Question paper

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17 years of expertise in Computer classes XI-XII for any queries/answers

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