



3 FEB 2015

Series OSR

Code No. 91

Roll No.

X 11 - 2014

Candidates must write the Code on the title page of the answer-book.

- Please check that this question paper contains **16** printed pages.
- Code number given on the right hand side of the question paper should be written on the title page of the answer-book by the candidate.
- Please check that this question paper contains **7** questions.
- **Please write down the Serial Number of the question before attempting it.**
- 15 minutes time has been allotted to read this question paper. The question paper will be distributed at 10.15 a.m. From 10.15 a.m. to 10.30 a.m., the students will read the question paper only and will not write any answer on the answer-book during this period.

COMPUTER SCIENCE

Time allowed : 3 hours

Maximum Marks : 70

Instructions :

- All questions are compulsory.*
- Programming Language : C++*

1. (a) What is the difference between call by reference and call by value with respect to memory allocation ? Give a suitable example to illustrate using C++ code.

2

- (b) Observe the following C++ code and write the name(s) of the header file(s), which will be essentially required to run it in a C++ compiler :

1

```
void main()
{
    char CH, STR[20];

    cin >> STR;

    CH = toupper(STR[0]);

    cout << STR << "starts with" << CH << endl;
}
```

- (c) Rewrite the following C++ code after removing all the syntax error(s), if present in the code. Make sure that you underline each correction done by you in the code.

2

Important Note :

- Assume that all the required header files are already included, which are essential to run this code.
- The corrections made by you do not change the logic of the program.

```
typedef char[80] STR;

void main()
{
    Txt STR;

    gets(Txt);

    cout << Txt[0] << '\t' << Txt[2];

    cout << Txt << endl;
}
```

