

CHAPTERWISE & TOPICWISE

# QUESTION BANK

## COMPUTER SCIENCE (C++)

Previous years solved papers  
2009-2017 (All sets of Delhi & Outside Delhi)

**CBSE** CLASS 12

Strictly Based on the Latest CBSE Syllabus Dated 4<sup>th</sup> April 2017 for Academic Year 2017-18

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CHAPTERWISE & TOPICWISE

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## COMPUTER SCIENCE (C++)

Previous Years Solved Papers  
2009-2017 (All sets of Delhi & Outside Delhi)

Includes CBSE Solved Paper - 2017

# CBSE CLASS 12

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# CONTENTS

- *Latest Syllabus issued by CBSE on 4<sup>th</sup> April 2017 for Academic Year 2017-18* 7 - 9
- *Solved Paper, 2017 (Delhi & Outside Delhi Set)* 11 - 32

## UNIT - I : OBJECT ORIENTED PROGRAMMING IN C++

1. C++ Revision Tour 1 - 27
2. Object Oriented Programming in C++ 28 - 40
3. Implementation of OOP Concepts in C++ 41 - 58
4. Constructor and Destructor 59 - 69
5. Inheritance 70 - 83
6. Data File Handling 84 - 104
7. Pointers 105 - 110

## UNIT - II : DATA STRUCTURES

8. Arrays 111 - 127
9. Stack 128 - 140
10. Queue 141 - 147

## UNIT - III : DATABASE MANAGEMENT SYSTEM AND SQL

11. Database Concepts 148 - 154
12. Structured Query Language 155 - 173

## UNIT - IV : BOOLEAN ALGEBRA

13. Boolean Algebra 174 - 190

## UNIT - V : NETWORKING & OPEN SOURCE SOFTWARE

14. Networking and Open Source Concepts 191 - 216

□□

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# PREFACE

CBSE always believes in Global Trends of Educational Transformation. The CBSE curriculum gets its lead from National Curriculum Framework – 2005 and Right to Free and Compulsory Education Act – 2009. The aim of CBSE Curriculum is not just to let learners obtain basic knowledge but to make them life-long learners. CBSE always updates and reviews the syllabus to make it more relevant with educational transformation and in last few years the chapters and topics which CBSE has added are very interesting and increase practical knowledge.

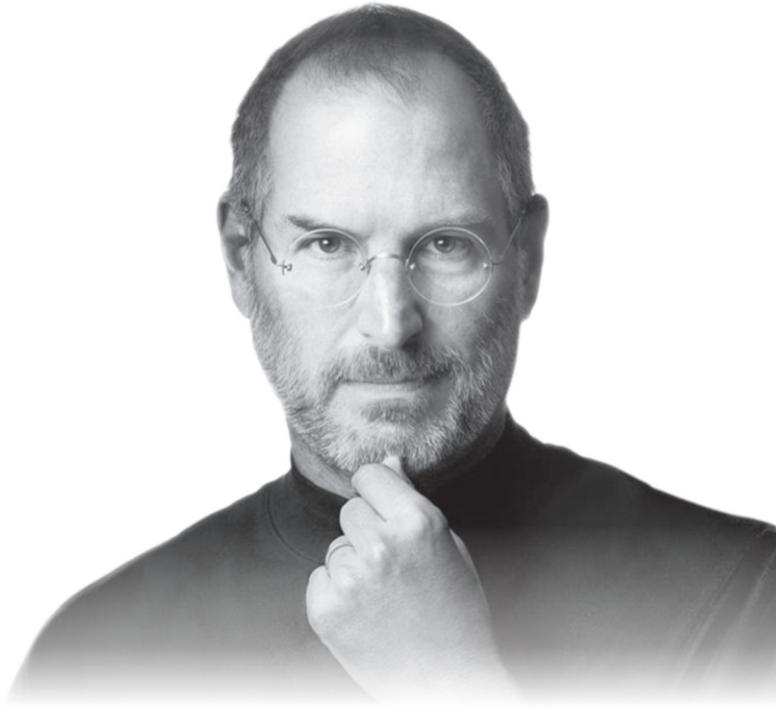
Oswaal Question Banks are designed to nurture individuality and thus enhance one's innate potentials which helps in increasing the self-study mode for students. This book strengthens knowledge and attitude related to subject. It is designed in such a way that students can set their own goals and can improve their problem solving and thinking skills.

The journey of this book is never ending as this book is reviewed every year and new questions, previous year's examination questions, new HOTS or any change in syllabus is updated time to time. Also regular review and readers' feedback increases the efficiency of this book gradually.

Moreover every Question Bank strictly follows the latest syllabus and pattern, and contains more than sufficient questions and brief description of chapters, which help students in practicing and completing the syllabus. Questions incorporated in this Question Bank encompass all the 'Typologies' mentioned by CBSE namely Remembering, Understanding, Application, High Order Thinking Skills and Evaluation. Solutions for these have been checked twice and efforts have been made to align them closely to the Marking Scheme. Practically, this book provides students everything they need to learn and excel.

At last we would like to thank our authors, editors, reviewers and specially students who regularly send us suggestions which helps in continuous improvement of this book and makes this book stand in the category of "One of the Best". Wish you all Happy Learning.

*–Publisher*



# Steve Jobs

24 February, 1955 - 5 October, 2011

Entrepreneur, Businessman, Inventor, Industrial Designer

Steve Paul Jobs was born in San Francisco, California to two University of Wisconsin graduate students who gave him up for adoption. Smart but directionless, Jobs experimented with different pursuits before starting Apple Computer with Steve Wozniak in 1976. Apple's revolutionary products, which include the iPod, iPhone and iPad, are now seen as dictating the evolution of modern technology, with Jobs having left the company in 1985 and returning more than a decade later. He died in 2011, following a long battle with pancreatic cancer.

Steve skipped sixth grade altogether, and his teachers even considered having him bypass seventh grade, too.

When Jobs was 12, HP founder Bill Hewlett offered him a summer job after Steve called him asking for parts for an electronics project.

Apple was co-founded by Steve Jobs and his college dropout friend, Steve Wozniak, in Steve's family garage.

Jobs called the former VP of Google, Vic Gundotra, and told him that second O in Google had the wrong shade of yellow and that he was going to fix it. Evidently, Steve had incredible attention to detail.

Walter Isaacson's biography of Steve Jobs reveals that he was fond of eating carrots and apples and could live on these two for days on end.

Information in this section is sourced from various available sources. Though all efforts have been made to make sure it is trustworthy, Oswaal Books shall not be responsible for mistakes, if any.

# Latest Syllabus for Academic Year 2017-18

## Computer Science C++

Duration : 3 hours

Total Marks : 70

Unit No.	Unit Name	Marks
1.	OBJECT ORIENTED PROGRAMMING IN C++	30
2.	DATA STRUCTURE	14
3.	DATABASE MANAGEMENT SYSTEM AND SQL	08
4.	BOOLEAN ALGEBRA	08
5.	COMMUNICATION TECHNOLOGIES	10
	<b>Total</b>	<b>70</b>

### UNIT 1 : OBJECT ORIENTED PROGRAMMING IN C++

(50 Theory + 40 Practical) Periods

#### REVIEW : C++ covered In Class -XI,

**Object Oriented Programming :** Concept of Object Oriented Programming –Data hiding, Data encapsulation, Class and Object, Abstract class and Concrete class, Polymorphism (Implementation of polymorphism using Function overloading as an example in C++); Inheritance, Advantages of Object Oriented Programming over earlier programming methodologies,

**Implementation of Object Oriented Programming concepts in C++ :** Definition of a class, Member of a class– Data Members and Member Functions (methods), Using Private and Public visibility modes, default visibility mode (private); Member function definition: inside class definition and outside class definition using scope resolution operator (::); accessing members from object (s), Objects as function arguments–pass by value and pass by reference;

**Constructor and Destructor :** Constructor: special characteristics, declaration and definition of a constructor, default constructor, overloaded constructors, copy constructor, constructor with default arguments;

**Destructor :** Special Characteristics, declaration and definition of destructor;

**Inheritance (Extending Classes) :** Concept of Inheritances, Base Class, Derived classes, protected visibility mode; Single level inheritance, Multilevel inheritance and Multiple inheritance, Privately derived, publicly derived and Protectedly derived class, accessibility of members from objects and within derived class (es);

**Data File Handling :** Need for a data file, Types of data files – Text file and Binary file;

**Text File :** Basic file operations on text file : Creating / Writing text into file, Reading and Manipulation of text from an already existing text File (accessing sequentially).

**Binary File:** Creation of file, Writing data into file, Searching for required data from file, Appending data to a file, Insertion of data in sorted file, Deletion of data from file, Modification of data in a file; Implementation of above mentioned data file handling in C++; Components of C++ to be used with file handling: Header file: fstream.h; ifstream, ofstream, classes; Opening a text file in–in, out, and app modes; Using cascading operators (>>, <<) for writing text to the file and reading text from the file; open (), get (), read () put (), write (), getline () and close () functions; Detecting end-of-file (with or without using eof () function ), tellg (), tellp (), seekg (). seekp ();

## Pointers:

**Introduction to Pointer**, Declaration and Initialization of Pointer; Dynamic memory allocation/ deallocation operators : **new, delete**; Pointers and Arrays: Array of Pointers, Pointer to an array (1 dimensional array), Function returning a pointer, Reference variables and use of alias; Function call by reference. Pointer to structure : De - reference / Deference operator : \*, -> ; self referencial structure;

## UNIT 2 : DATA STRUCTURES

(42 Theory + 36 Practical) Periods

Introduction to data structure - array, stack queues primitive and non-primitive data structure, linear and non-linear structure, static and dynamic data structure.

**Arrays** : One and two Dimensional arrays: Sequential allocation and address calculation; One dimensional array: Traversal, Searching (Linear, Binary Search), Insertion of an element in an array, deletion of an element from an array, Sorting (Insertion, Selection, Bubble) Two - dimensional arrays: Traversal Finding sum/ difference of two NxM arrays containing numeric values, Interchanging Row and Column elements in a two dimensional array;

**Stack (Array and Linked implementation of Stack)** : Introduction to stack (LIFO: Last in First out Operations) Operations on stack (PUSH and POP) and its Implementation in C++, Converting expressions from INFIX to POSTFIX notation and evaluation of Postfix expression;

**Queue: (Array and Linked Implementation)** : Introduction to Queue (FIFO – First in First out operations) Operations on Queue (Insert and Delete and its Implementation in C++, circular queue using array.

## UNIT 3 : DATABASE MANAGEMENT SYSTEM AND SQL

Common to both the options. Refer to unit 3 DATABASE AND SQL mentioned in case of Python for further details.

## UNIT 4 : BOOLEAN ALGEBRA

Common to both the options. Refer to unit 4 mentioned in case of Python for further details.

## UNIT 5 : NETWORKING AND OPEN SOURCE SOFTWARE

Common to both the options. Refer to unit 5 COMMUNICATION TECHNOLOGIES mentioned in case of Python for further details.

## CLASS XII (PRACTICAL) - C++

Duration: 3 hours

Total Marks : 30

### 1. Programming in C++

10

One programming problem in C++ to be developed and tested in Computer during the examination.

Marks are allotted on the basis of following:

Logic	:	6 Marks
Documentation/Indentation	:	2 Marks
Output presentation	:	2 Marks

**Notes** : The types of problem to be given will be of application type from the following topics

- Arrays (One dimensional and two dimensional)
- Class (es) and objects
- Stack using arrays and or linked implementation
- Queue using arrays (circular) and or linked implementation
- Binary File operations (Creation, Displaying, Searching and modification)
- Text File operations (Creation, Displaying and modification)

2. **SQL Commands** 05  
Five Query questions based on a particular Table / Relation to be tested practically on Computer during the examination. The command along with the result must be written in the answer sheet.
3. **Project Work** 05  
The project has to be developed in C++ language with Object Oriented Technology and also should have use of Data files. ( The project is required to be developed in a group of 2-4 students )
- Presentation on the computers
  - Project report ( Listing, Sample, Outputs, Documentations )
  - Viva
- \* 1 mark is for innovation while writing programme.
4. **Practical File** 06  
Must have minimum 20 programs from the following topics
- Arrays ( One dimensional and two dimensional, sorting, searching, merging, deletion. & insertion of elements )
  - Class (es) and objects
  - Stacks using arrays and linked implementation
  - Queue using arrays & linked implementation ( circular aslo ).
  - File ( Binary and Text ) operations ( Creation, Updation, Query )
  - Any computational Based problems
  - 15 SQL commands along with the output based on any table /relation:
5. **Viva Voce** 04  
Viva will be asked from syllabus covered in class XII and the project developed by student.

# Writing Notes

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**SOLVED  
PAPER**

**C.B.S.E.  
2017  
Class–XII  
Delhi & Outside Delhi**

**Computer  
Science  
C++**

Time : 3 Hours

Max. Marks : 70

**General Instructions :**

- (i) All questions are compulsory.
- (ii) Answer the questions after carefully reading the text.

Delhi Set

Code No. 90/1

**SECTION - A  
(Only for Candidates, who opted for C++)**

1. (a) Write the type of C++ tokens (keywords and user defined identifiers) from the following : 2

- (i) For
- (ii) delete
- (iii) default
- (iv) Value

(b) Anil typed the following C++ code and during compilation he found four errors as follows : 1

- (i) Function strlen should have a prototype
- (ii) Undefined symbol cout
- (iii) Undefined symbol endl
- (iv) Function getchar should have a prototype

On asking his teacher told him to include necessary header files in the code. Write the names of the header files, which Anil needs to include, for successful compilation and execution of the following code :

```
void main ()
{
    char S [ ] = "Hello",
    for (int i = 0; i < strlen (s); i++)
        S[i] = S[i] + 1,
    cout << B<<endl;
    getchar ();
}
```

(c) Rewrite the following C++ code after removing any/all syntactical errors with each correction underlined. 2

Note : Assume all required header files are already being included in the program.

```
void main ()
{
    cout << "Enter an integer";
    cin >> N;
    switch (N%2)
    case 0 cout << "Even"; Break;
    case 1 cout << "Odd"; Break;
}
```

(d) Find and write the output of the following C++ program code : 2

**Note :** Assume all required header files are already included in the program.

```
# define Big (A, B) (A > B) ? A + 1 : B + 2
void main ()
{
    char w [ ] = "Exam";
    int L = strlen (w);
    for (int i = 0, i < L - 1, i++)
        w [i] = Big (w[i], w [i + 1]);
    cout << w << endl;
}
```

(e) Find and write the output of the following C++ program code : 3

**Note :** Assume all required header files are already being included in the program.

```
void main ()
{
    int A [ ] = {10, 12, 15, 17, 20, 30},
    for (int i = 0, i < 6, i+ +)
```

```

{
    if (A [i] % 2 == 0)
        A [i] / = 2;
    else if (A [i] % 3 == 0)
        A [i] / = 3;
    if (A [i] % 5 == 0)
        A [i] / = 5;
}
for (i = 0; i < 6; i ++ )
    cout << A [i] << "#",
}

```

- (f) Look at the following C++ code and find the possible output(s) from the options (i) to (iv) following it. Also, write the maximum values that can be assigned to each of the variables R and C. **2**

**Note :**

- Assume all the required header files are already being included in the code.
- The function random (n) generates an integer between 0 and n – 1.

```

void main ()
{
    randomize ();
    int R = random (3), C = random (4);
    int MAT [3] [3] = { { 10, 20, 30}, {20, 30, 40}, {30, 40, 50}},
    for (int I = 0, I < R, I ++ )
    {
        for (int J = 0; J < C; J ++ )
            cout << MAT [I] [J] <<" ";
        cout << endl,
    }
}

```

(i)			(ii)		
10	20	30	10	20	30
20	30	40	20	30	40
30	40	50			
(iii)			(iv)		
10	20		10	20	
20	30		20	30	
			30	40	

2. (a) Differentiate between private and public members of a class in context of Object Oriented Programming. Also give a suitable example illustrating accessibility/non-accessibility of each using a class and an object in C++. **2**
- (b) Observe the following C++ code and answer the questions (i) and (ii).

**Note :** Assume all necessary files are included.

```

class EXAM
{
    long code;
    char EName [20];
    float Marks;
public :
    EXAM () //Member Function 1
    {
        code = 100, strcpy (EName, "Noname"); Marks = 0;
    }
    EXAM (EXAM &E) //Member Function 2
    {
        code = E.code + 1;
        strcpy (EName, E.EName);
        Marks = E. Marks;
    }
};
void main ()
{
    _____ //Statement 1
    _____ //Statement 2
}

```

- (i) Which Object Oriented Programming feature is illustrated by the Member Function 1 and Member Function 2 together in the class EXAM? **1**
- (ii) Write Statement 1 and Statement 2 to execute Member Function 1 and Member Function 2 respectively. **1**
- (c) Write the definition of a class RING in C++ with following description : **4**

**Private Members**

- RingNumber // data member of integer type
- Radius // data member of float type
- Area // data member of float type
- CalcArea () // Member function to calculate and assign // Area as 3.14 \*Radius\* Radius

**Public Members**

- GetArea () // A function to allow user to enter values of // RingNumber and Radius. Also, this

```

// function should call
CalcArea () to calculate
// Area
- ShowArea () // A function to display
RingNumber, Radius
// and Area

```

(d) Answer the questions (i) to (iv) based on the following : 4

```

class One
{
    int A1,
protected :
    float A2;
public :
    One ();
    void Get 1 (); void show1 ();
};
class Two : private One
{
    int B1;
protected :
    float B2;
public :
    Two (),
    void Get2 ();
    void Show ();
};
Class Three : public Two
{
    int C1;
public :
    Three ();
    void Get 3 ();
    void Show ();
};
void main ()
{
    Three T;           //Statement 1
    _____,      //Statement 2
}

```

(i) Which type of inheritance out of the following is illustrated in the above example?

Single Level Inheritance, Multilevel Inheritance, Multiple Inheritance.

(ii) Write the names of all the member functions, which are directly accessible by the object T of class Three as declared in main () function.

(iii) Write Statement 2 to call function Show () of class Two from the object T of class Three.

(iv) What will be the order of execution of the constructors, when the object T of class Three is declared inside main () ?

3. (a) Write the definition of a function Reverse (int Arr [ ], int N) in C++, which should reverse the entire content of the array Arr having N elements, without using any other array. 3

Example : if the array Arr contains

13	10	15	20	5
----	----	----	----	---

Then the array should become

5	20	15	10	13
---	----	----	----	----

Note :

- The function should only rearrange the content of the array.
- The function should not copy the reversed content in another array.
- The function should not display the content of the array.

(b) Write definition for a function ADDMIDROW (int MAT[ ] [10], int R, int C) in C++, which finds sum of the middle row elements of the matrix MAT (Assuming C represents number of Columns and R represents number of rows, which is an odd integer). 2

For example, if the content of array MAT having R as 3 and C as 5 is as follows :

1	2	3	4	5
2	1	3	4	5
3	4	1	2	5

The function should calculate the sum and display the following :

Sum of Middle Row : 15

(c) T[25][30] is a two dimensional array, which is stored in the memory along the row with each of its element occupying 2 bytes, find the address of the element T[10] [15], if the elements T[5] [10] is stored at the memory location 25000. 3

(d) Write the definition of a member function ADDMEM () for a class QUEUE in C++, to add a MEMBER in a dynamically allocated Queue of Members considering the following code is already written as a part of the program. 4

```

struct Member
{
    int MNO;
    char MNAME (20);
    Member *Next;
};

```

```

Class QUEUE
{
    Member "Rear, "Front;
public :
    QUEUE () {Rear = NULL, Front = NULL,}
    void ADDMEM ();
    void REMOVEMEM ();
    ~ QUEUE ();
};

```

- (e) Convert the following Infix expression to its equivalent Postfix expression, showing the stack contents for each step of conversion. **2**

$$P + (Q - R) * S / T$$

4. (a) Aditi has used a text editing software to type some text. After saving the article as WORDS.TXT, she realised that she has wrongly typed alphabet J in place of alphabet I everywhere in the article. **3**

Write a function definition for JTOI () in C++ that would display the corrected version of entire content of the file WORDS.TXT with all the alphabets "J" to be displayed as an alphabet "I" on screen.

**Note :** Assuming that WORD.TXT does not contain any J alphabet otherwise.

**Example :**

If Aditi has stored the following content in the file WORDS.TXT :

WELL, THJS JS A WORD BY JTSELF. YOU COULD STRETCH THJS TO BE A SENTENCE

The function JTOI () should display the following content :

WELL, THIS IS A WORD BY ITSELF. YOU COULD STRETCH THIS TO BE A SENTENCE

- (b) Write a definition for function COUNTDEPT () in C++ to read each object of a binary file TEACHERS.DAT, find and display the total number of teachers in the department MATHS. Assume that the file TEACHERS.DAT is created

with the help of objects of class TEACHERS, which is defined below : **2**

```

class TEACHERS
{
    int TID; char DEPT [20];
public :
    void GET ()
    {
        cin >> TID, get, (DEPT);
    }
    void SHOW ()
    {
        cout << TID << "i" << DEPT << endl;
    }
    char *RDEPT () {return DEPT;}
}

```

- (c) Find the output of the following C++ code considering that the binary file BOOK.DAT exists on the hard disk with a data of 200 books. **1**

```

class BOOK
{
    int SID, char BName [20],
public :
    void Enter () void Display ();
};
void main ()
{
    fstream InFile;
    InFile.open ("BOOK.DAT", ios :: binary | ios :: in);
    BOOK B;
    InFile.seekg (5* sizeof (B));
    InFile.read (char *) &B, sizeof (B)
    cout << "Book Number : " << InFile.tellg () / sizeof (B) + 1;
    InFile.seekg (0, ios :: and);
    cout << "of" << InFile.tellg () / sizeof (B) << endl;
    InFile.close ();
}

```

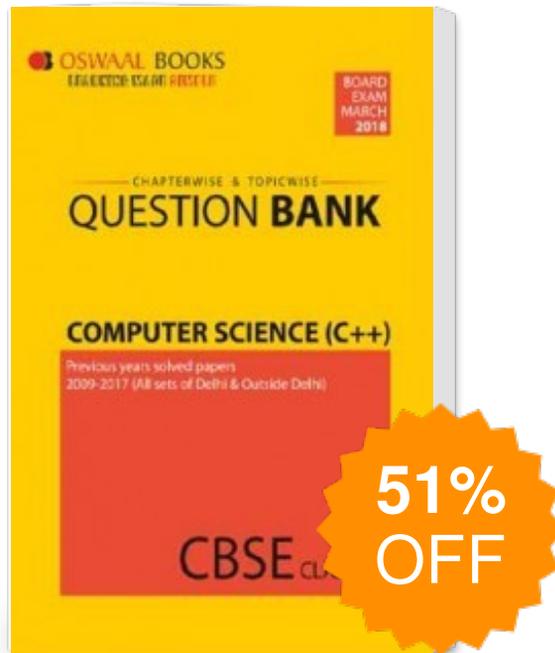
**SECTION - C**  
**(For All the Candidates)**

5. (a) Observe the following table CANDIDATE carefully and write the name of the RDBMS operation out of (i) SELECTION (ii) PROJECTION (iii) UNION (iv) CARTESIAN PRODUCT, which has been used to produce the output as shown in RESULT. Also, find the Degree and Cardinality of the RESULT. **2**

**TABLE : CANDIDATE**

NO	NAME	STREAM
C1	AJAY	LAW
C2	ADITI	MEDICAL
C3	ROHAN	EDUCATION
C4	RISHAV	ENGINEERING

# Oswaal CBSE Chapterwise/Topicwise Question Bank For Class 12 Computer Science C (Mar. 2018 Exam)



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