

a. 1110001010

b. 101110011111011

Q.8 Find the 1's and 2's complement of the following numbers :

a. 124

b. -56

c. 68

d. -64

e. -42

Q.9 Convert

a. $(3ABC)_{16} = (?)_8$

b. $(0110001.001110)_2 = (?)_8$

c. $(2AC9)_{16} = (?)_2$

d. $(11011101.0111)_2 = (?)_{10}$

Q.10 Convert 25.25_{10} to its binary equivalent.

Q.11 $(AC.20)_{16} = (?)_2 = (?)_8$

Q.12 $(4A56)_{16} = (?)_{10} = (?)_8$

Q.13 $(72905)_{10} = (?)_{16}$

Q.14 Find the 1's and 2's complement of 128.

Chapter-4

Q.1 What is microprocessor?

Q.2 Expand -

a. CRT

b. LCD

c. OLED

d. CISC

Q.3 What is clock speed?

Q.4 What is Floppy disk?

Q.5 Compare RISC and CISC processors.

Q.6 What is the difference between RAM and ROM?

Q.7 Differentiate between serial and parallel port?

Q.8 Distinguish between Input unit and output unit?

Q.9 Expand - RISC, CISC, EPIC

Q.10 Differentiate between Interpreter and compiler?

Q.11 What are different types of monitors?

Q.12 What role does memory play in the functioning of computer system?

Q.13 Explain what are the two categories of printers.

Chapter-6

Q.1 What do you mean by a lexical unit? Give an example.

Q.2 What is the difference between '=' and '=='?

Q.3 What is the difference between 'a' and "a" in C++?

Q.4 Write the statements to find the product of 5 and 7.

Q.5 How are keywords different from identifiers?

- Q.6** Write code to print the area of rectangle.
- Q.7** Why is it important to include `iostream h` in C++ programs?
- Q.8** What is a comment? In how many ways can you create comments in C++?
- Q.9** Write code to obtain the amount and then calculate discount as 10% of amount.
- Q.10** Write code to print the square and cube of a number.
- Q.11** Write a program to find the simple interest.
- Q.12** Write a program to calculate the volume and area of sphere [volume = $(4/3)*\text{pie}*r^3$ and Area = $4*\text{pie}*r^2$]



DELHI PUBLIC SCHOOL, FARIDABAD

Computer Science Assignment — 2016-17 Semester - I

Unit- II, Class - XI

Chapter -2 : Working with Operating System

- Q.1 What is an operating system?
- Q.2 What is the significance of
- Recycle bin
 - Network Neighbourhood
 - Start menu
- Q.3 What is Desktop?
- Q.4 Differentiate between a file and a folder.
- Q.5 Differentiate between
- System software and Application software
 - Compiler and interpreter
 - Hardware and software
- Q.6 Define utilities? Name some important utilities.
- Q.7 Discuss some advance features of Windows 7.
- Q.8 What are the major functions of operating system?
- Q.9 What type of services are provided by an operating system?
- Q.10 Explain the concept of virtual storage.

Chapter-7

- Q.1 Why is char often treated as integer data type.
- Q.2 What is a variable?
- Q.3 Name the two types of data types.
- Q.4 How is structure different from a class.
- Q.5 What main integer types are offered in C++?
- Q.6 Explain the function and usage of a union giving an example.
- Q.7 Write a program to read a number n and print n^2 , n^3 and n^4 .
- Q.8 Explain with example the concept of constant variable.
- Q.9 Write a program to print ASCII code of a given digit.
- Q.10 What are data type modifiers. How do they affect a base data type?

Chapter-8

- Q.1 What is logical operator?
- Q.2 Evaluate $a+=a+++a$ if $a = 10$ initially.
- Q.3 Predict the output of the following code fragment when value is input as (i) 6, (ii) 0
`int a, b =3;`



Chapter -5 : General OOP Concepts

- Q.1 Define the term Inheritance?
- Q.2 What is an object and a class?
- Q.3 What is data abstraction? Explain the concept with the help of an example.
- Q.4 Write two major differences between object oriented programming and procedural programming?
- Q.8 Differentiate between Data hiding and encapsulation.
- Q.6 Write a short note on OO programming.
- Q.5 What is polymorphism? Explain with example.
- Q.7 State the advantages and disadvantages of OOP.
- Q.9 Why are classes called abstract data type?
- Q.10 Define Encapsulation? Why is data considered safe if encapsulated?

Chapter-10

- Q.1 What is an infinite loop?
- Q.2 WAP to print the following series
 - a. 1, 3, 5, 7,, 19
 - b. 2, 4, 6, 8,, 20
 - c. 1, 4, 9, 16, 25
 - d. 100, 90, 80, 70,, 10
- Q.3 W
- Q.5 Write a program to print the table of a given number using while loop.
- Q.6 WAP to check whether the number is positive or negative.
- Q.7 Use a nested loop to produce the following output :
 - a. 1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
 - b. *
* *
* * *
* * * *
- Q.8 WAP to calculate the factorial of a number?
- Q.9 WAP to find the sum of the series :
 $S=1+x+x^2+x^3+.....+x^n$
- Q.11 What is the entry controlled loop and exit controlled loop?
- Q.12
 - a) Write a cpp program to generate Fibonacci series
 - b) Write a cpp program to print that given year is a leap year.

- Q.13**
- a. What is the significance of Test condition in a loop?
 - b. What is a selection statement write the syntax?
 - c. What will be the output produced by the following code
for (i = 10; i <= 50; i += 10)
 { j=i /2;
 cout<< j << " " ;
 }