

Delhi Public school, Jammu

Final Assignment

(2016 – 17)

Class : XI

Subject : Computers

Chapter : Computer Overview

Questions carrying 1 mark

Q1. What is Data ?

Q2. What is Information?

Q3. What is a Computer ?

Q4. What is Input and Output Unit ?

Questions carrying 2/3 marks

Q1. What is a Computer ? What are its characteristics ?

Q2. Briefly explain the basic architecture of a Computer ?

Q3. What are the points of difference between Data and Information?

Q4. Distinguish between CPU and ALU.

Q5. Briefly explain the significance of Input-Process- Output Cycle ?

Q6. Draw a block diagram of the main units of a computer hardware system ?

Questions carrying 4/5 marks

Q1. What are the Software classifications ? Discuss their functioning in brief.

Q2. How are Computers classified? How are they different from one another ?

Q3. Write a detail note on the evolution of computers ?

Chapter : Software Concepts

Questions carrying 1 mark

Q1. What is Booting ?

Q2. What are Device Drivers?

Q3. What is a Freeware ?

Q4. What role does user interface play?

Questions carrying 2/3 marks

- Q1. What type of services are provided by an Operating System ?
- Q2. Explain the Concept of Virtual Storage.
- Q3. Explain briefly the functions performed by an Operating System as an Processor Manager.
- Q4. Distinguish between Proprietary and Free Software.
- Q5. How are Disk Defragmenter and Disk cleanup tools different ?

Chapter : Data Representation

- Q1. Convert the following hexadecimal numbers to Decimal :
- a) A6 b) A13B c) E9 d) 7CA3
- Q2. Convert the following decimal numbers to Hexadecimal :
- a) 132 b) 2352 c) 206 d) 3619
- Q3. Convert the following Hexadecimal numbers to Octal :
- a) 38AC b) 7FD6 c) ABCD
- Q4. Convert the following Octal numbers to binary :
- a) 123 b) 3527 c) 7642 d) 7015 e) 3576
- Q5. Convert the following binary numbers to Octal :
- a) 111010 b) 110110101 c) 1101100001 d) 11001 e) 10011101

Chapter : Microprocessor Basics and Memory Concepts

Questions carrying 1 mark

- Q1. What is Microprocessor?
- Q2. What is Cache Memory?
- Q3. What is a Bus ?
- Q4. What is RAM?

Questions carrying 2/3 marks

- Q1. Name the factors that determine the performance of a microprocessor.
- Q2. What is the importance of registers on a microprocessor?
- Q3. Distinguish between Internal and External Memory?

Q4. Distinguish between RAM and ROM .

Q5. Compare RISC and CISC processors.

Questions carrying 4/5 marks

Q1. What is the role of memory in a computer functioning ? What types of memory does the computer work with ?

Q2 What are Memory devices ? Discuss in detail.

Q3. Discuss the basic composition of a simple microprocessor .

Q4. What is the significance of Bus system of a microprocessor ?

Chapter : General OOP Concepts

Questions carrying 1 mark

Q1. What is Polymorphism ?

Q2. What is a Base class?

Q3. What is a HLL ?

Questions carrying 2/3 marks

Q1. What do you mean by Abstraction and Encapsulation ? How are these two terms are interrelated ?

Q2. Write two major differences between object oriented programming and Procedural Programming..

Q3. Explain the transitive nature of Inheritance.

Q4. Distinguish between an Object and a Class.

Q5.How is modular programming approach different from procedural programming approach ?

Questions carrying 4/5 marks

Q1. Write a detail note on Software evolution.

Q2 Explain different programming paradigms, their shortcomings etc. with appropriate examples

Q3. Explain the basic concepts of OOP with examples.

Chapter : Getting started with C++

Questions carrying 1 mark

Q1. Why is main function special ?

Q2. What does the file iostream.h consist of ?

Q3. In C++ , how are devices treated ?

Q4. What do you understand by code generation?

Questions carrying 2/3 marks

Q1. Differentiate between Logical error and syntax error. Give example

Q2. Write two advantages of using include compiler directive

Q3 . What are the predefined stream objects in I/O library?

Questions carrying 4/5 marks

Q1. What are tokens in C++ ? How many types of tokens are allowed in C++? Exemplify your answer.

Q2 Write a program in C++ that reads the temperature in Celsius and displays it in Fahrenheit.

Q3. Write a program in C++ that accepts the radius of a circle and prints its area.

Q4. Write a program in C++ that accept marks in 5 subjects and outputs average marks.

Chapter : Data Handling

Questions carrying 1 mark

Q1. What are data types ?

Q2. What is a reference variable ?

Q3. What is a variable ?

Q4. What is a reference variable?

Questions carrying 2/3 marks

Q1. How is a structure different from a class ?

Q2. In how many ways can a variable can be declared in C++.

Q3 . What main integer types are offered by C++?

Questions carrying 4/5 marks

Q1. Explain the concept of pointer and its purpose.

Q2 What is the difference between fundamental data types and derived data types ? Explain with examples.

Q3. Write a program in C++ to find whether a given number is even or odd.

Q4. Write a program in C++ to read two numbers and print their quotient and remainder.

Chapter : Programming Methodology

Questions carrying 2/3 marks

Q1. What are the characteristics of a good program ?

Q2. Difference between Flowchart and Algorithm.

Programs for Practice

1. WAP to calculate the simple interest by making use of function overloading.
2. WAP to find the cube root of a given number by making use of functions.
3. WAP to find the quadratic roots of a given equation.