

SYLLABUS 2019-2020

Class : XII
Subject : COMPUTER SCIENCE
Book : COMPUTER SCIENCE WITH JAVA (SUMITA ARORA)
Publisher : DHANPAT RAI AND CO.

Term 1

1. Boolean algebra and computer hardware
 - * Propositional logic
 - * Binary valued quantity
 - * Theorems, duality
 - * K-map
 - * Simplification of equations
 - * Application of gates
 - * Basic laws and demorgan's law
2. Revision of programming (class XI)
 - * Arrays (s.d.a and d.d.a)
 - * Methods , strings , files and recursion
 - * Call by value / reference (passing objects)

Term 2

1. Chapter 12 : Concept of inheritance
 - i) Need of inheritance
 - ii) Types of inheritance
 - iii) Super keyword
 - iv) Abstract class and interface
 - v) Method overriding
2. Chapter 13 : Exception handling
 - i) Try , catch and finally block

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- ii) Various types of exceptions
- 3. Chapter 14 : Simple data structure
 - i) Linear stack and linear queue
 - ii) Single linked list
- 4. Chapter 10: Operation on files
 - i) Operations using text files
 - ii) Operations using binary files

Term 3

- 1. Chapter 14 : Recursive data structure
 - i) Introduction to recursive data structure
 - ii) Linked list
 - vi) Trees / Tree traversal
 - vii) Algorithms of data structure
- 2. Chapter 16: Computational complexity
 - i) Big O notation
 - ii) Estimation of complexity / analysis

Term 4

- 1. Revision of whole syllabus
- 2. Assignment for board practical exam
- 3. Assignment for project file
- 4. Problem solving

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