

SYLLABUS 2019-2020

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

Term 1

1. Revision of class 10th programming
 - * Chapter 1 and 3
2. Data Representation
 - * Number systems
 - * Conversions
 - * Binary arithmetic
3. Chapter 14 (Arrays and library methods with flow of control)
 - i) S.d.a and d.d.a
 - ii) Library methods

Term 2

1. Chapter 12 (Function : Recursion)
 - i) Introduction to recursion
 - ii) Using simple recursion
2. Chapter 5 (Logic and hardware)
 - i) Propositional logic
 - ii) Basic gates and universal gates
 - iii) Truth table, wff and logic gate diagrams, minterm, maxterm, canonical SOP, POS
 - iv) Half adder, full adder and Boolean laws.
3. Trends in Computing and Ethical issues.

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Term 3

1. Chapter 15(Operation on files)
 - i) String tokenizer class
 - ii) Exception handling
 - iii) Operations using text files
 - ii) Operations using binary files
 - iii) File operations
 - iv) I/O in files
 - v) I/O using scanner
2. Passing Objects.

Term 4

1. Chapter 16 (Data structure)
 - i) Linear stack and Linear queue

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