



DEPARTMENT OF SCHOOL EDUCATION TAMIL NADU



STANDARD - 11

QB365-Question Bank Software

State Council of Educational Research and Training
Chennai 600 006

QB365-Question Bank Software

SYLLABUS 2020-2021

CLASS: 11

SUBJECT: COMPUTER SCIENCE

UNIT	CONTENT
Unit-l	1.1. Introduction to Computers
1. Introduction to Computers	1.2. Generation of Computers
	1.4 Data and information
2. Number System	2.1. Introduction
	2.2. Data Representation
	2.3. Different Types of Number System
	2.4. Number System Conversion
	2.5 Binary Representation for signed Numbers
3. Computer Organisation	3.1. Introduction to Computer Organization
	3.2 Basics of Microprocessor
	3.4 Types of Microprocessor
	3.5 Memory Devices
4. Theoretical Concepts	4.1 Introduction to Software
of Operating System	4.2 Introduction to Operating System
	4.3 Types of Operating System
	4.5 Prominent Operating System
5. Working with Windows Operating System	5.1 Introduction to Operating System
	5.2 Introduction to Windows Operating System
	5.5 Windows Desktop
	5.6 The Window
	5.7 Application Window
	5.8 Document Window
	5.9 Elements of Window
	5.11 Managing Files and Folders
UNIT - II	6.1 Algorithms
6 Specification and	6.2 Algorithmic Problems
Abstraction	6.3 Building Blocks of Algorithms
	6.4 Algorithm Design Techniques
	6.5 Specification
	6.6 Abstraction

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	C. Algorithms
7. Composition and Decomposition	7.1 Notations for Algorithms
	7.2 Composition
	7.3Decomposition
8. Iteration and Recursion	8.1 Iterative statement
	8.2 Loop Invariants
Unit - III	9.1 Introduction
9 Introduction to C++	9.2 Character Set
	9.3 Lexical Unit
	9.4 Input/Output Operators
	9.5 Sample Program in C++
	9.6 Execution of C++
	9.8 Types of errors
	9.10 Introduction to datatypes, variables and Expressions
	9.11 Concept of Datatype
	9.12 C++ data types
	9.13 Variables
Unit - III	10.1 Introduction
10 Flow of Control	10.2 Statements
	10.4 Selection Statements
Harte wa	10.5 Iteration statements
Unit - III	11.1 Introduction
11. Functions	11.2 Need for functions
	11.3 Types of functions
	11.5 User defined functions
	11.6 Methods of calling function
	Returning from function
	1.1.5 Recursive function
Unit - III	11.10 Scope Rules of variables
	12.1 Introduction
12. Arrays and Structures	12.2 Types of Arrays
	12.3 Two dimensional A
	12.4 Array of Strings

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Unit - IV 13. Introduction to Object Oriented Programming Techniques	13.1 Introduction 13.3 Basic Concepts of OOP 13.4 Advantages of OOP 13.5 Disadvantages of OOP
Unit - IV	14.1 Introduction to Classes
14. Classes and Objects	14.2 Creating Objects
	14.3 Memory allocation of objects
	14.4 Referencing class members
Unit - IV	15.1 Introduction
15. Polymorphism	15.2 Function overloading
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Unit - IV	16.1 Introduction to Inheritance (page no.260)
16. Inheritance	16.2 Need for Inheritance
	16.3 Types of Inheritance
	16.4 Derived Class and Base class
Unit - V	17.1 Introduction
17. Computer Ethics and Cyber Security	17.2 Ethical Issues
Unit - V	Entire Unit
18. Tamil Computing	10,

PRACTICAL

CLASS: 11	SUBJECT: COMPUTER SCIENCE
SI.No	Topic
1	Gross Salary
2	Percentage
3	Palindrome
4	Number Conversion
5	Fibonacci Prime Series