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FOR PUNJAB CLASS 11 PREPARATION

PSEB 11th Class Syllabus 2027 Computer Application

EXAM	YEAR	TYPE	SUBJECT
Punjab Class 11	2027	Syllabus	Computer Science

COMPUTER APPLICATION
Class-XI
(Session: 2026-27)

Unit-I

LESSON: 1 FUNDAMENTALS OF INFORMATION TECHNOLOGY

Computer System, Components of Computer System, Software & its types, Trends in IT

LESSON: 2 NUMBER SYSTEM & LOGIC GATES

Introduction to Number system, Types of Number system, Conversion between Number Systems, Logic Gates, Proof of NAND and NOR as Universal Gates, Demorgan's Law

Unit-II

LESSON 3: INTRODUCTION TO PROGRAMMING LANGUAGES

Introduction, Concept of Program, Programming and Programmer, ProgrammingLanguages, Language Translator, Types of Errors

LESSON 4: INTRODUCTION TO OOP WITH JAVA

Introduction to Object Oriented Programming, Principles of Object-Oriented Programming - abstraction, encapsulation, inheritance and polymorphism, Introduction to Java, History of Java, Features of Java, Basic Structure of Java Program, Creating an Executing a Simple Java Program, Basic Elements for Java Programming:character set, tokens, comments

Unit-III

LESSON 5: DATA TYPES AND OPERATORS IN JAVA

Data Types, Variables, Operators, Expressions, Precedence of Operators, Type Conversion

LESSON 6: CONTROL STATEMENTS IN JAVA

Introduction, Branching Statements: if else, switch case, Looping Statements: for, while, do while, Jumping Statements: break, continue

Unit-IV

LESSON 7: CLASSES AND OBJECTS

Class, Objects, Static Members, Constructors, Overloading in Java (Methods andConstructors)

LESSON 8: STRINGS AND WRAPPER CLASSES

Strings, Performing operations on Strings, Wrapper Classes

LESSON 9: INHERITANCE

Inheritance and its types, Interfaces, Use of super method, Abstract Class and Methods Method Overriding, Final Class, Method and Variables