

# Class: 11 Computer Science

## Chapter 1: Computer System

**Computer** - Electronic device that can be programmed to accept data (input), process it and generate result (output).

Computer + Hardware + Software = Computer System

- CPU
- Memory
- Input/Output
- Storage device

**CPU** - Central processing Unit -

Electronic circuitry of a computer that carries out actual processing.  
- also called processor.

**Brain of Computer** \* **Integrated Circuits**: CPU placed in one or more microchips, called ICs.  
- semiconductor material.

**Functioning**:

① fetches program → ② performs operations → ③ stores result.

\* **Registers**: CPU stores the data as well as instructions in its local memory called registers.

\* **CPU** -

- **ALU**: Arithmetic Logic Unit → performs operations that need to be done as per the instructions in a program.
- **CU**: Control Unit → controls sequential instruction execution, interprets instructions and guides data flow through the computer memory.

**CPU aka Microprocessor**

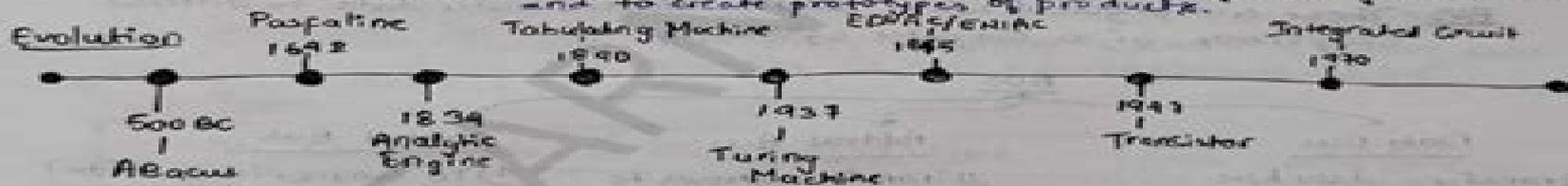
**Input device**: - The device through which control signals are sent.  
input data → Digital form.

Examples - Keyboard, Mouse, Scanner, touch screen.

**Output device**: - The devices through which control signals are received.  
digital form → human understandable form.

Examples - Monitor, projector, speaker, headphones, printer.

**3D printer**: - To build physical replicas. used in manufacturing industries and to create prototypes of products.



**Computer Memory**: - To store data and instructions for processing.

Units of memory: - Binary numbers (0 and 1) → Basic unit → Bits.

4-bit word → nibble (1001, 1010)

2 nibble word → byte (01000110, 01111100)

Unit	Description	Unit	Description
KB (kilobyte)	1 KB = 1024 Bytes	PB (Pebabyte)	1 PB = 1024 TB
MB (Megabyte)	1 MB = 1024 KB	EB (Exabyte)	1 EB = 1024 PB
GB (Gigabyte)	1 GB = 1024 MB	ZB (Zettabyte)	1 ZB = 1024 EB
TB (Terabyte)	1 TB = 1024 GB	YB (Yottabyte)	1 YB = 1024 ZB

# Computer Science Notes 11th Class State Board

**J Rink**



## **Computer Science Notes 11th Class State Board:**

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section and an index MLF The Book of the States, 1996-97 Edition ,1996 **Raising Standards in Schools** Patricia Pine,1985 In a survey of 1 500 administrators most of the 400 respondents agreed by an 8 to 1 margin that reforms to raise academic standards in public schools are necessary In high schools a decline in reading vocabulary and math skills is due basically to a decreased academic emphasis Solutions include more required courses more opportunities for writing and laboratory activities homework in all classes and a rigid core curriculum Second the absence of rigorous graduation requirements in high schools seems to account for an increase in remedial college enrollments Achievement tests advanced placement courses and counseling are strategies to make college bound students aim higher Third students become negligent when their teachers demand little Districts are attempting to raise expectations through methods such as grading homework and attendance policies Other academic reforms involve productive use of time participation of key working groups in the standard raising process and continued attention to disadvantaged students Recently districts have been

concentrating on elementary school standards by involving parents providing attention to high risk students monitoring students and using tests for diagnosis Appendices contain 1 the results of a polling of 1 200 adults concerning standard setting measures and 2 minimum state graduation requirements RG Proceedings University/Urban Schools National Task Force (U.S.). Conference,1985 The Book of the States ,1990 This comprehensive reference guide offers information on state government that is unavailable from any other single source Includes complete data for comparison analysis on governors legislators judges courts taxation elections revenues expenditure debt employment personnel more Also contains more than 200 50 state tables Other topics covered include state constitutions state by state voting statistics facts about each state such as state motto population capitol estimated costs of attending institutions of higher learning dozens of essays concerning current trends in state government New additions to the 90 91 edition include a 22 page profile on state innovators the visionary leaders behind state policies programs information on stateinitiative referendum recall Completely indexed **Computers and People** ,1980 **The Book of the States** Deborah A. Gona,1994 This comprehensive reference guide offers information on state government that is unavailable from any other SINGLE source It reflects activity in the states with complete information on government reorganization management productivity elections state finances taxation state administrators salaries legislative compensation federal expenditures in the states state initiatives campaign finances corrections health care more Also contains more than 300 50 state tables in an easy to read format for quick reference Other topics covered include state constitutions state by state voting statistics facts about each state such as state motto population capitol estimated costs of attending institutions of higher learning dozens of essays concerning current trends in state government Clothbound completely indexed 79 each 30% discount for orders 6 or more Orders The Council of State Governments Sales Dept 3650 Iron Works Pike P O Box 11910 Lexington KY 40578 1910 1 800 800 1910 **ASEE ... Profiles of Engineering & Engineering Technology Colleges** ,1998 **ASEE 1995-1996 Profiles of Engineering & Engineering Technology Colleges** ,1997 **ACM SIGPLAN Notices** ,2001-07 **Proceedings, the ... Conference of the University/Urban Schools National Task Force** University/Urban Schools National Task Force (U.S.). Conference,1981 *Informational Bulletin* Wisconsin. Legislature. Legislative Reference Bureau,1981 *America's Best Colleges* ,2003 **The New York Times Index** ,2009

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## **Table of Contents Computer Science Notes 11th Class State Board**

1. Understanding the eBook Computer Science Notes 11th Class State Board
  - The Rise of Digital Reading Computer Science Notes 11th Class State Board
  - Advantages of eBooks Over Traditional Books
2. Identifying Computer Science Notes 11th Class State Board
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Computer Science Notes 11th Class State Board
  - User-Friendly Interface
4. Exploring eBook Recommendations from Computer Science Notes 11th Class State Board
  - Personalized Recommendations
  - Computer Science Notes 11th Class State Board User Reviews and Ratings
  - Computer Science Notes 11th Class State Board and Bestseller Lists
5. Accessing Computer Science Notes 11th Class State Board Free and Paid eBooks
  - Computer Science Notes 11th Class State Board Public Domain eBooks
  - Computer Science Notes 11th Class State Board eBook Subscription Services
  - Computer Science Notes 11th Class State Board Budget-Friendly Options

6. Navigating Computer Science Notes 11th Class State Board eBook Formats
  - ePub, PDF, MOBI, and More
  - Computer Science Notes 11th Class State Board Compatibility with Devices
  - Computer Science Notes 11th Class State Board Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Computer Science Notes 11th Class State Board
  - Highlighting and Note-Taking Computer Science Notes 11th Class State Board
  - Interactive Elements Computer Science Notes 11th Class State Board
8. Staying Engaged with Computer Science Notes 11th Class State Board
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Computer Science Notes 11th Class State Board
9. Balancing eBooks and Physical Books Computer Science Notes 11th Class State Board
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Computer Science Notes 11th Class State Board
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Computer Science Notes 11th Class State Board
  - Setting Reading Goals Computer Science Notes 11th Class State Board
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Computer Science Notes 11th Class State Board
  - Fact-Checking eBook Content of Computer Science Notes 11th Class State Board
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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