COMPUTER SCIENCE

Chapter	Focus Area
1. Structures and Pointers	Concept of structure, syntax, and creation; Defn. of Pointer, Use of & and * operators, Static V/s dynamic memory allocation, new and delete operators, Memory leak.
2. Concept of Object Oriented Programming	POP V/s OOP, five concepts of OOP
3. Data Structures and Operations	Classification of data structures, Operations on data structures, Concept of stack, queue (linear only) and linked list. Push and Pop operations with algorithms.
4. Web Technology	Static and Dynamic web pages, Comparison of Client side and Server side scripts, Structure of HTML code, Container tags and empty tags, Common attributes of <BODY> tag, Use of important tags (Headings, , <P>, <HR>, text formatting tags, <MARQUEE>, <FONT>, <IMG>), Only the essential attributes need to be considered.
5. Web Designing using HTML	Lists (Ordered, Unordered, Definition), <A> tag and HREF attribute, Definition of internal and external linking, Table tags, Listing and use of Input controls in Form, Coding questions may focus only on simple lists and simple tables.
6. Client side Scripting using JavaScript	<SCRIPT> tag, Data types, var keyword, Operators, Control structures and Built-in functions – use and outputs.
7. Web Hosting	Types of web hosting, FTP client software, Free hosting
8. Database Management System	Advantages of database, Components of DBMS, Types of users, RDBMS terminologies, Relational operations (Select, Project, Union, Intersection)
9. Structured Query Language	SQL components, SQL data types, Constraints, Use of commands (DDL - CREATE TABLE, DROP TABLE; DML - SELECT, DELETE, UPDATE with essential clauses only). SQL queries based on Create, Select (only WHERE clause), Delete.
10. Server side Scripting using PHP	echo() V/s print, PHP data types, Operators and Control structures.
11. Advances in Computing	Serial V/s Parallel computing, Cloud computing and three services, Applications of computational intelligence – listing only
12. ICT and Society	Applications of ICT – Education, Business, Governance (Benefits and challenges of each). Cyber crimes against individuals.

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