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CLASS 12

Computer Science

Chapterwise PYQs

8 sections | 44 questions | 2022, 2023, 2024, 2025, 2026

CBSE board examination questions

Selected and rewritten questions are grouped under the current chapters or course topics. Each question shows its examination year. A chapter appears only when a verified question is available.

Choose a chapter or topic

Computer Science		
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CHAPTER 2

File Handling in Python

Computer Science

1. 2026
   Write a Python function that returns the number of digit characters in Space.txt.

2. 2026
   Write Python to display words from Space.txt containing at least two lowercase 'e' characters.

3. 2025
   Write a function that prints lines containing the whole word 'vote' from Elections.txt.

4. 2025
   PASSENGERS.DAT contains records [PNR, PName, BRDSTN, DESTN, FARE]. Write Create() to accept and store a passenger record in binary form.

5. 2025
   PASSENGERS.DAT stores [PNR, PName, BRDSTN, DESTN, FARE]. Write SearchDestn(D) to display records whose destination equals D.

6. 2024
   Write showInLines() to read STORY.TXT and display each sentence ending in '.', '?' or '!' on a separate line.

7. 2024
   Peripheral.csv stores P_id, P_name and Price. Write Count_Device() to count records priced below 1000.

8. 2024
   Compare the 'w' and 'a' modes when opening a text file.

9. 2024
   Explain the benefit of opening a file with a with statement and show its syntax.

10. 2023
    Give one difference between a CSV file and a plain text file.

11. 2023
Explain why an opened file should be closed before a program finishes.

12. 2023
Write binary customer records containing number, name, quantity, price and amount. Accept quantities of at least 10; calculate amount as quantity × price.

CHAPTER 3

Stack

Computer Science

13. 2025
Write a stack-pop function for ClrStack that returns the top record, displaying 'Underflow' when empty.

14. 2024
Write PushBig() to push integers with five or more digits from list Nums onto stack BigNums.

15. 2023
Customer records contain a name and room type. Write a function that pushes names with room type 'Delux' onto stack Hotel.

16. 2022
Write PushNV(N) to push strings containing no vowels from list N onto the stack NoVowel.

CHAPTER 8

Database Concepts

Computer Science

17. 2024
Explain the Cartesian product of two database tables.

18. 2022
Distinguish a candidate key from a primary key.

19. 2026

STOCK has Code, Type, Qty and Price. Find maximum Price by Type; increase Price by 0.5 for Type 'F'.

20. 2025

Choose an SQL constraint requiring every employee Name to be supplied while still allowing duplicate names.

21. 2024

Projects has fields P_id and Language. Add a primary key on P_id; then change Language to 'Python' for P002.

22. 2024

Write SQL that removes the Projects table together with its data.

23. 2024

State two features of SQL.

24. 2022

Write SQL commands to select database LIBRARY, list its tables and display the structure of BOOKS.

25. 2022

FLIGHT has columns FNO and FARE. Set FARE to 6000 for flight F104 using SQL.

26. 2022

The table ITEMS contains a DISCOUNT column. Write SQL to remove that column.

27. 2022

Classify CREATE, UPDATE, INSERT and DROP as DDL or DML commands.

CHAPTER 10–11

Computer Networks and Data Communication

Computer Science

28. 2026

Give one advantage and one disadvantage of bus topology.

29. 2025

Expand URL and explain its purpose.

30. 2025

Identify the protocol traditionally used for a manager to log in remotely to another office computer.

31. 2025

Classify the network connecting computers within one hospital campus.

32. 2023

Classify a network connecting Delhi and Kanpur offices 300 km apart, and justify your choice.

33. 2023

Which protocol supports transferring files between offices?

34. 2022

Explain what a web browser does and name two examples.

35. 2022

Name the device that regenerates a weakened signal and the device suitable for connecting computers within a block.

SYLLABUS TOPIC

Revision of Python

Additional CBSE Syllabus Topics

36. 2026

Write Python to create sorted list L1 from list L without modifying L.

37. 2026

Write a Python expression that tests whether dictionary D1 contains the key 'RNo'.

38. 2025

Give examples of a Python syntax error and implicit type conversion.

SYLLABUS TOPIC

Functions

Additional CBSE Syllabus Topics

39. 2026

Differentiate positional and default parameters; illustrate both in a function definition.

40. 2026

Write CountVowels(s), returning the number of uppercase and lowercase vowels in string s.

41. 2025

Illustrate how return passes a result from a Python function to its caller.

42. 2023

Write EOReplace(L) to increase each even integer in list L by one and decrease each odd integer by one.

SYLLABUS TOPIC

Python–SQL Connectivity

Additional CBSE Syllabus Topics

43. 2026

SCHOOL.Account has Stud_id, Sname, Class and Fees. Write Python using MySQL connectivity to display records with Fees below 5000.

44. 2025

In database CINEMA, THEATRE has primary key Th_ID. Write Delete_Theatre() using a MySQL connection to read an ID, delete its record and commit.

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