

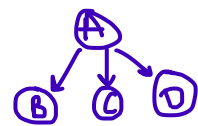
OOPs

- ① Abstraction
- ② Encapsulation
- ③ Polymorphism

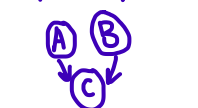
- ④ Modularity
- ⑤ Inheritance

Deloitte Associate Analyst

"Hierarchical"



"Multiple"



"Multi level"



- ✓ 1. What is Object Oriented Programming in C++? Explain various OOP concepts.
- ✓ 2. Difference between Encapsulation and Abstraction.
- ✓ 3. What are different types of polymorphism? *compile time, Runtime*
- ✓ 4. Difference between DDL and DML in DBMS. *→ Data Definition, Data Manipulation*
- ✓ 5. What is a view in DBMS? *→ doesn't exist*
- ✓ 6. Difference between candidate key and super key. *→ minimal super key*
7. Difference between GET and POST methods.
- ✓ 8. What are basic data structures available in Python? *list, tuple, dict, set*
- ✓ 9. Difference between multiple and multi-level inheritance.
- ✓ 10. What is the difference between SQL and MySQL? *→ software (DBMS)*
11. What is SMTP in Computer Network?
12. What are the similarities between array list and vector? *Java*
- ✓ 13. What is the difference between char and varchar in DBMS? *→ compile time*
- ✓ 14. What is the difference between function overloading and function overriding?
- ✓ 15. What are the different storage classes in C? *auto, extern, static, register* *→ runtime*
- ✓ 16. What are ACID properties in DBMS? *→ Atomicity, Consistency, Isolation, Durability*
- ✓ 17. What are access specifiers in C++? *→ public, private, protected*
18. What are the differences between stored procedures and triggers in SQL? *DBMS*
- ✓ 19. What do you know about Machine Learning?
- ✓ 20. What is the difference between DELETE and TRUNCATE in SQL?
- ✓ 21. Given a two-dimensional boolean array with each row sorted. There are m rows and n columns in the matrix. Find the row that has the most 1s in it.
22. SQL queries for the following scenarios:
 - I. Query to return the name of employee having second highest salary.
 - II. Query to fetch details of employees whose Last name ends with an alphabet 'A' and contains five alphabets.
 - III. Query to fetch the department-wise count of employees sorted by department's count in ascending order.

Questions on project mentioned in resume:

- Motivation behind taking up a particular project.
- Which tools and technologies did you use in the project? Were all of these open source?
- Why did you use a particular tool or technology and not some other alternative?
- Questions on dataset - source, size, etc
- If it was a team project, what was your contribution and in how much time were you able to complete the project?
- Questions on result - accuracy, how well the project is working, limitations of the project.