Model Test Paper-1

Section -A

1. What is data structure?
2. What is data merging?
3. What do you mean by merging
4. What is array?
5. Write the time complexity of linear search
6. What is string?
7. What is inheritance?
8. Write the definition of new operator.
9. Write the full form of SQL.
10. Which command is used to create table in SQL?
11. Write the name of any commercial DBMS software.
12. What is relationship?
13. Draw the symbol of weak entity?

Section -B

14. What are the different techniques to check the efficiency of algorithm?
15. Explain the push operation with diagram and algorithm.
16. What is sorting?
17. Write the name of operators which cannot be overloaded.
18. What is destructor?
19. What is multiple inheritance?
20. Explain the first normal form with example.
21. What is database trigger?
22. Explain the commands used in DCL.
23. Explain the PL/SQL program block structure.
24. Write the differences between C & C++.

Section –C

25. Write the advantages and disadvantages of Linked List.
26. Write the differences between structure & union
27. Explain the symbols used in ER Diagram

Section –D

28. Explain the merge sort with example

    OR

    Explain the bubble sort with example
29. Explain the different types of control structures.

    OR

    Explain the constructor overloading with example.
30. Explain the Normalization process with example .

    OR

    Draw the ER-Diagram of school database.

Model Test Paper-2

Section –A

1. What do you mean by algorithm?
2. What is pointer?
3. What is sorting?
4. What is the importance of sorting?
5. Define the stack data structure?
6. What do you mean by linked list?
7. What do you mean by function?
8. What is constructor?
9. What is DBMS?
10. Write any of any types of SQL.
11. What do you mean by database schema?
12. What is PL/SQL?
13. What is exception part of PL/SQL program?

Section-B

14. Why space complexity is important?
15. Write the time complexity of binary search
16. Write the name of operations that can be implemented on Array.
17. What is stable sorting?
18. What is adaptive and non-adaptive sorting?
19. Write the algorithm of insertion sort.
20. Write the program and algorithm for peek() function.
21. What is header linked list?
22. Write any program of C++.
23. What is difference between private and public access modifier?
24. Write the short not on Revoke command.

Section-C

25. Write the syntax to declare a class
26. Write a program to show the use of call by reference.
27. Write the applications of DBMS.

Section-D

28. How can we calculate the space complexity?

OR

Which data structure is used in recursion?

29. Explain the doubly linked list.

OR

Write a program in c language to sort the elements of array using merge sort.

30. Explain the delete operation on array with program

OR

What do you mean by friend function? Write the features of friend function.

Model Test Paper-3

Section –A

1. What is an efficient and fast algorithm?
2. Why it is necessary to declare an array before using it?
3. What is stable sorting?
4. How many data pointers are there in a queue?
5. What is header linked list?
6. What do you mean by insertion?
7. Define the precedence of operator?
8. What do you mean by inline function?
9. What do you mean by class?
10. What is record?
11. What do you mean by a query language?
12. What is NULL in SQL?
13. Write the types of variables in Pl/SQL.

Section-B

14. Explain the linear data structure.
15. What do you mean by array
16. Write the differences between one and two dimensional array.
17. What is in-place sorting?
18. Write the algorithm of bubble sort.
19. Write the algorithm of quick sort.
20. What infix notation?
21. Write the basic operations on linked list.
22. Define the function
23. What is difference between logical and physical data independence.
24. What is difference between % TYPE and % Row Type

Section -C

25. What is enumerated data type.
26. Explain the access modifier
27. What is place holder in Pl/SQL?

Section-D

28. Write the uses of data structure

    OR

    Why binary search is better than linear search
29. What are the basic operations of queue? Explain

    OR

    Write a program in c language to search the element in an array
30. What is linked list? Write its usage.

    OR

    Write the different types of triggers used in Pl/SQL.

Model Test Paper-4

Section –A

1. What is data space?
2. What is string?
3. What do you mean by quick sort?
4. How can we implement stack?
5. What is node?
6. What is token?
7. Why it is necessary to declare array before using it?
8. Define the precedence of operator.
9. What is inline function?
10. Define the database schema.
11. What is entity?
12. What is difference between primary and unique constraints?
13. What is the use of exception block in PI/SQL?

Section-B

14. Write a short note on algorithm.
15. What is string?
16. Write an algorithm to find the GCD of two numbers
17. What is the worst case of quick sort algorithm?
18. Write the algorithm for selection sort.
19. Define the stack.
20. Write the algorithm for de-queue operation.
21. Write the structure of C++ program.
22. What is difference between call by value and call by reference.
23. Write a short note on referential integrity.
24. Write a short note on execution section of PL/SQL program

Section-C

25. Write the uses of new and delete operator.
26. What is the aim of DBMS
27. Write the hierarchy of PL/SQL trigger.

Section-D

28. Explain the compound data structure

    OR

    Write a program in c language to insert an element in an array
29. Explain the malloc() function in detail

    OR

    Write a program in c language to delete an element from the array
30. Explain the functional dependencies in DBMS

    OR

    What is function overloading? Write a program to show the use of function overloading.

Model Test Paper-5

Section-A

1. Write the examples of linear data structure
2. What is pointer?
3. What is the worst case of quick sort?
4. How many data pointers are there in a queue?
5. What do you mean by linked list?
6. What is next?
7. What is keyword?
8. How many types of control structure are there in programming?
9. What is function?
10. What is parameterized constructor?
11. What is difference between procedural and non-procedural DML?
12. Name the different types of SQL.
13. Where to declare the variable in PL/SQL?

Section -B

14. What do you mean by pointer?
15. What is the worst case of quick sort?
16. What is infix notation?
17. What do you mean by function prototype?
18. Name the operator which cannot be overloaded.
19. What is abstract class?
20. Write the example of constructor
21. What is a bad database
22. Write the uses of group by option in SQL.
23. Write the advantages of SQL
24. What is the use of 'Exit' in PL/SQL?

Section -C

25. What is push operation explain with algorithm and diagram
26. Write some rules that are common in c and c++.
27. Write the advantages of DBMS.

Section-D

28. Explain the quick sort.

    OR

    Explain the compiling and linking process in C++.
29. Write a program in C++ which is used to add and subtract complex numbers using class.

    OR

    Write a program in C++ to calculate the areaof circle and rectangle using function overloading
30. Write a program in C++ to show the use of static member function

    OR

    Explain the Mapping cardinality constraint

Model Test Paper-6

Section-A

1. How many types of simple data structure are there?
2. What do you mean by array?
3. What is stable sorting?
4. What are the main operations of stack?
5. What do you mean by insertion?
6. What do you mean by node?
7. What is constraint?
8. What do you mean by expression?
9. What is friend class?
10. Name the operator which cannot be overloaded.
11. What is the use of index in SQL?
12. What is the use of select in SQL?
13. How can we use select in PL/SQL?

Section-B

14. Why time complexity is important?
15. Write the algorithm for quick sort.
16. Define the stack?
17. What is enumerated data?
18. What is difference between call by value and call by reference?
19. What is difference between private and public access modifier?
20. What virtual base class?
21. What is weak entity? Draw it in E-R Diagram.
22. Write the syntax of different types of DML commands.
23. Write a short note on primary key.
24. What is the use of declaration section in PL/SQL program?

Section-C

25. What is dynamic memory allocation?
26. How can we implements control statement in C++? Explain
27. Differentiate between logical and physical data independence.

Section –D

28. What is difference between stable and unstable sorting?

    OR

    Explain the implicit and explicit data type conversion
29. Explain the structure with syntax and example

    OR

    Explain the abstract class with example.
30. Explain the different types of looping statement

    OR

    What are static data members? Explain with program.

Model Test Paper-7

Section-A

1. Which data types are used in simple data structure?
2. What is NULL pointer?
3. What is selection sort?
4. What is notation?
5. What do you mean by linked list?
6. What is the importance of sorting?
7. What do you mean by constraint?
8. What is difference between structure and union?
9. How can we call a function?
10. What is the use of index in DBMS?
11. Define the database instance?
12. What is NULL in SQL?
13. What is the use of '&' in PL/SQL?

Section-B

14. What are the two techniques to check the efficiency of an algorithm?
15. Why binary search is better than linear search?
16. What is sorting?
17. Write the classification of data structure
18. Explain the associativity of operator
19. Write the features of static data members
20. Explain the constructor with example.
21. Write the difference between primary and composite primary key.
22. Write the structure of SQL.
23. Explain the referential integrity.
24. Explain the parts of PL/SQL block structure.

Section-C

25. Write a program to show the use of 2D-Array.
26. Explain the POP operation with diagram and algorithm.
27. What is the use of grant command in PL/SQL.

Section-D

28. Write the difference between single and double linked list.

    OR

    Write all basic data types with their size and range
29. Write a program to swap the values of two numbers using call by reference function.

    OR

    Can an array be the members of a class? Explain with example
30. Write a program to calculate the area of rectangle using parameterized constructor

    OR

    Write a program to make the object of call as negative using unary '-' operator overloading.

SENIOR SECONDARY EXAMINATION, 2018

SECTION - A

1. Define Non linear data structure.
2. Write Syntax of Malloc Memory function?
3. What is the time complexity of Quick Sort?
4. Define queue.
5. Give any two disadvantages of Linked list.
6. Give different types of Linked list.
7. Define DDL.
8. What is Candidate Key?
9. What is the use of dbms_output.put_line?
10. What is the use of NOW() function in SQL?
11. What is operator associativity?
12. What is the use of new operator in C++?
13. What is access Modifier in C++?

SECTION - B

14. What is the meaning of One to Many relationship in E-R diagram?
15. Differentiate between Simple and Composite attribute.
16. Write the steps to design a database.
17. What is the use of SET Serveroutput ON in PL/SQL?
18. What is Space Complexity? How can we calculate it?
19. Explain the address calculation in 2-D array.
20. Explain the basic operations of stack.
21. Differentiate between Adaptive and Nonadaptive Sorting algorithms.
22. What are the features of Static data Members?
23. Write the syntax for accessing the Member function of a class.
24. What do you understand by function overloading?

Section-D

25. Explain selection sort with example.
26. What do you understand by call by reference? Explain with example.
27. Explain following database anomalies
    (i) Update (ii) Insertion (iii) Deletion
28. Explain Merge Sort with example.

    OR

    Explain recursion in 'C' with example.
29. What do you understand by aggregate function in SQL? Explain aggregate function on following Schema.

    Teacher (T.name, salary, age, dob)

    OR

    Explain following in E-R diagram :

    (i) Derived attribute (ii) Participation constraints (iii) Key constraints
30. Explain Multiple Inheritance with example.

    OR

    Write a C++ Program to explain Constructor overloading.

Board Model Paper

PART-A

1. What is data structure?
2. What do you mean by data merging?
3. What do you mean by Algorithm?
4. What is an array?
5. What is the complexity of leaner search algorithm?
6. What is String?
7. What is inheritance?
8. Define New operator?
9. Write full name of SQL.
10. Which command is used to create table?
11. Write the name of any one commercial DBMS Software?
12. What is relationship?
13. Draw symbol of week entity.

PART-B

14. What are the method of algorithm efficiency?
15. What is push operation? Describe with diagram.
16. What is sorting?
17. Write the name of any two operators which cannot be
18. overloaded.
19. What is Destructor?
20. What is multiple inheritance?
21. Define First Normal Form using an example.
22. What is Database trigger?
23. Write name of DCL Commands.
24. Write different parts of PL/SQL.
25. Write difference between C & C++ language.

PART-C

26. Write any two advantages - disadvantages of linked list.
27. Explain symbols of E-R diagram.

PART-D

28. Explain Merge Sort with an example.

OR

Explain Bubble sort with an example.

29. Describe control structure using examples.

OR

Explain constructor overloading using programme.

30. Explain Normalization process using examples?

OR

Draw E-R diagram of school database.

Pre Board Paper-2018

Section –A

Very Short Questions

1. What do you mean by Algorithm? 1
2. Define the new operator 1
3. What is weak entity? 1
4. What is DBMS? 1
5. What is PL/SQL . 1
6. Write the syntax of Select command 1
7. Define double linked list 1
8. What is stable sorting? 1
9. What is inline function? 1
10. Write the aggregate functions of SQL 1
11. Write the program structure of PL/SQL? 1
12. Write the use of like operator in SQL. 1
13. Write the difference between static and dynamic memory allocation 1

Section B.

Short Questions

14. Explain the time and space complexity 2
15. What do you mean by array? Write the different operations that can be applied on array 2
16. What is abstract function? 2
17. Write the algorithm for Quick sort 2
18. What do you mean by Queue? Explain 2
19. Explain the data models 2
20. Explain the following commands 2

    (i) Alter (ii) Update
21. Write the algorithm for push and pop operation on stack 2
22. What are the different methods to call a function 2
23. Explain the grant and revoke command of SQL 2
24. Explain the access modifier? 2

Section C

Long Questions

25. Explain the constructor and destructor 3
26. Explain the friend function 3
27. What is inheritance? Explain its types 3
28. Explain the Normalization process with example 4

    OR

    What do you mean by constraints? Explain its types
29. What is function overloading? Write a program in C++ to show the use of function Overloading 4

    OR

    What is Operator overloading? Write a program in C++ to overload unary '++' operator
30. Explain the E-R model 4

    OR

    What do you mean by keys? Explain all types of keys with example.

SENIOR SECONDARY EXAMINATION, 2019

SECTION – A

1. Define the time complexity of an algorithm
2. Define recursion
3. Which function is used to measure the length of string in ‘c’ language
4. What is the time complexity of Binary search.
5. Give an example of In place sorting
6. Define the Stack
7. Which data structure is used in Breadth First Traversal method
8. Define the keywords used in c++
9. What is the use of new operator in C++
10. Define the function prototype
11. What is the use of friend function
12. Define the data integrity
13. Give an example of structured query language

SECTION-B

14. Write the formulae to find the address of element in one dimensional array
15. Clear the difference between static and dynamic memory allocation
16. What do you understand by enqueue operation
17. What are the rules to define identifier in C++
18. What is use of inline function
19. What you understand by destructor
20. What is difference between procedural and non -procedural DML
21. What is multi-valued attribute? Give two examples
22. What are the objectives of Normalization
23. Why do we use grant command in SQL.’
24. What is trigger

SECTION-C

25. Write a program to print Fibonacci series in C language (0 1 1 2 3 5 8 13 21 …)
26. Explain the copy constructor with example
27. Explain the abstract class? Explain with example
28. Explain quick sort with example.

    OR

    Explain merge sort with example
29. Write the syntax of following –
    (i) Greatest
    (ii) Adddate
    (iii) Now
    (iv) Count

    OR

    What are the foreign key constraints? With example
30. What is 3NF? Write the conditions for relation schema to be in 3NF

    OR

    Explain the different components of ER model with suitable diagram