Parul® University

TechDefence

Question Bank

Q.1	What is data, information, data structure and an algorithm?
Q.2	What is data, information, data structure and an algorithm?
Q.3	Explain classification of data structure with an example.
Q.4	Difference between Linear data structure and non linear data structure.
Q.5	Explain the operations that can be performed on a data structure
Q.6	What is a structure and self referential structure?
Q.7	Explain dynamic memory allocation and its functionalities
Q.8	How to analyze the algorithm?
Q.9	Define the best case, average case and worst case with an example.
Q.10	What is a stack? Explain the operation of the stack in detail.
Q.11	Convert the Infix equation into Prefix and Postfix: ((A+B)-(Z*D))/(P-Q)
Q.12	Convert the Infix notation into Postfix: ((10+90)-(25*4)) + (20+20) INTO POSTFIX
Q.13	What is a recursion? Explain in detail.
Q.14	Explain Tower of Hanoi with the assumption of three rings and three roads as A, B and C.
Q.15	What is a Linked List? How to represent an array into singly, doubly and circular linked lists?Explain with an example.
Q.16	Explain Linked List operation with an example.
Q.17	List out the applications of Linked List.
Q.18	What is Searching? Explain Interpolation Search with an example.
Q.19	What is Sorting? Write the difference between Selection sort and Insertion sort with an example.
Q.20	What is the difference between Quick sort and Merge sort. Explain with an example.
Q.21	Explain Bubble sort and Radix sort with an example.