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SEM-II. PAPER-CC3  
SUBJECT- IT. F.M-60

Short answer type. 10x2=20

1. What do you understand by Data? Also define the data structures .
2. Write an algorithm for multiplication tables for any number.
3. What is an Algorithm? Write an algorithm for addition of two numbers.
4. Write the algorithm for pop operation of stack.
5. Define an Array.write the algorithm to delete an element from array.
6. Explain the concept of overflow and underflow in the stack
7. Define the stack data structure.write the algorithm for insert data in the stack.
8. Write a program for selection sort using C language.

Long answer type. 20x2=40

9. Write a program for binary search using C language.
10. Write a program for quick sort.
11. Define the queue data structure in details.
12. Write a program to delete an element from a queue.
13. Write a program for selection sort using C language
14. Write a program for linear search.
15. Write a program for push operation of stack data structure.
16. What is the role of data structure in a program. write the all types of data structure with example.