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Write a program to sum all the numbers between 3 (a) 8 5 given range using recursion. \backslash Explain in detail memory representation of array. **(b)** What do you mean by static memory allocation? OR Write an algorithm to sort element using **(b)** 8 Insertion sort. (a) Explain in detail concept of sequential access 4 8 file and random access files. (b) Write a program to create a file stud containing 8 information rno, name, city. Also provide facility to perform a search on city. OR Explain in detail structures. Also give example how 4 (a) 8 to passing a structure to a function Write a program to merge the content of the two (b) 8 files in the third file. Write short notes : (any 5 two) 10 Recursion **(i)** $\langle i \rangle$ (ii) Selection sort (iii) Sequential search.

[1300]

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