BANKURA SAMMILANI COLLEGE

Internal Assessment Examination-2024

Semester-4 (~~~~)C- 8

Paper-Analysis of Algorithm

Full Marks-10

Time-30 min

Answer any five questions: 5*2=10

1. What is an algorithm? What is the need for an algorithm?
2. Write the characteristics of Divide conquer algorithm.
3. Why quick sort is called partition-exchange sort.
4. What is in-place sorting algorithm?
5. What are the two phase of heap sort?
6. Why heap sort is better than selection sort
7. What are the time and space complexity in algorithm.
8. Write the worst case time complexity of quick sort and merge sort.