

**UG-479**

**BSCS-08**

**B.Sc. DEGREE EXAMINATION –  
DECEMBER, 2018.**

**Second Year**

**Computer Science**

**DESIGN AND ANALYSIS OF ALGORITHMS**

**Time : 3 hours**

**Maximum marks : 75**

**PART A — (5 × 5 = 25 marks)**

**Answer any FIVE questions.**

1. Elaborate the algorithms.
2. Write short note on Programme testing.
3. Explain about the Big-O notation.
4. Define Recurrences. Write about the substitution method.
5. Write short notes on Hill climbing.
6. Mention about the Factorial using recursion.
7. Write about the Bubble Sort with suitable example.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain about the Knight's tour.
  9. Discuss about the correctness of the algorithm.
  10. Elaborate about the Growth of function.
  11. Discuss about the Recurrences Master method.
  12. Explain in detail about the Jeep Problem.
  13. Briefly explain about the Branch and Bound with suitable example.
  14. Discuss about the Linear Search with suitable example.
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