Advanced Algorithms and Parallel Programming 1st part (Advanced Algorithms)–August 24th 2021

Polimi ID _____ _____

Surname _____ _____   **Name** _____

- This is a closed-book examination. You cannot use computers, phones or laptops during the exam.
- Paper will be provided, but you should bring and use writing instruments that yield marks dark enough to be read easily. Erasable pens can be used.
- Total available time: 1h:00m.

Exercise 1   (5   points) _____

Exercise 2   (6   points) _____

Exercise 3   (5   points) _____

Exercise n. 1

Discuss why dynamic programming matter for Binary Decision Diagrams (BDD) data structure.

Exercise n. 2

Describe how Karger and Stein algorithm works.

Exercise n. 3

Explain the difference between expected time and amortized time.