Università degli studi "Roma Tre"

A.Y: 2022/2023
Teaching: Sistemi Operativi
Course: Ingegneria Informatica
Exam session: 07/02/2022 – Written test
Lecturer: Romolo Marotta
Maximum score: 21 points

STUDENT ID_____**Last Name**_____**First Name**_____

It is recommended that you write your surname and name on this sheet and use it as a folder to contain the answer sheets. If you consider a question ambiguous, write down your interpretation and respond accordingly.

Question 1 (6 points)

Describe the First-Come-First-Serve CPU scheduling policy, highlighting its advantages and disadvantages.

Question 2 (6 points).

Describe the salient features of the UNIX file system.

Question 3 (9 points).

Given a main memory of 4 frames, determine how many and which page faults are generated by the FIFO, LRU and Optimal algorithms for page replacement in systems with virtual memory given the following trace:

0 1 2 3 1 4 5 1 2 3 5 6 7 5 3 5 6