UNIVERSITÀ DI TRIESTE	
Course: Operating Systems	Professor: Martino Trevisan
Date: December 17, 2023	Version: A
First and Last Name:	
Student ID:	

Instructions:

For each open question, please clearly write any assumption you make. Write in the given box using a comprehensible handwriting.

- 1. A System Call
 - A. Is used by the OS to orchestrate the kernel modules
 - B. Is used by a process to use a functionality of the software library
 - C. Is used by a process to use a functionality of the OS
 - D. Is used by the OS to schedule the active processes
- 2. The following script
 - ls | wc -1
 - A. Prints the number of subdirectories in the current folder
 - B. Prints the number of files/subdirectories in the current folder
 - C. Counts the file in the computer
 - D. Prints the number of active processes
- 3. A system has 4 GB of RAM and Virtual Memory with 1 kB pages.

(a) Compute how many bits the page offset is.
(b) Compute the number of pages of the system.

4.	Describe the difference between the multi-process and multi-thread paradigm