

Cosc 4740
Written Q26

Worth 10 points

*All answers are to be typed. This is **NOT** a programming assignment, no compiler needed, which also means it is due at class time.*

Consider the file system, you designed in your class project. Suppose the block size is 128 bytes, disk size is 200 blocks, and there are three partitions, A, B, and C consisting of 100, 30, and 10 blocks (Yes, there is extra space).

Assume you write one large file to each partition.

1. What is the maximum file size for each partition? **SHOW YOUR WORK** and state any assumptions. If you just write a number, then you will receive **ZERO** points.
2. What is the maximum number of blocks that a single file can use in each partition? Same, show your work and state any assumptions or you will receive zero points.