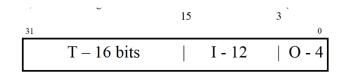
CMPEN331	– Quiz	6 (April	14	2022

Section:

Name: Email:

1. Draw and label the partitioning of the 32-bit memory address into the segments that are used to access the cache; Label each segment with its name and its width in bits. (shows bit numbers) (5 points)

Solution



A. Multiple Choice

For each of the following questions, select the option which is most often true: (5 points)

Increases, decrease, doesn't affect

- i. Increasing the capacity of a cache__Increases__its access time
- ii. Decreasing the capacity of a cache Increases its miss rate
- iii. Decreasing the capacity of a cache **doesn't effect** its miss penalty
- iv. Increasing a cache's hit rate **decrease** the effective average memory access time
- v. Assuming constant capacity, increasing a cache's block size (cache line size)

decrease or doesn't affect the amount of tag storage required