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|  | **COLLEGE OF COMPUTING AND INFORMATION SCIENCES** | | |
| **Task # 11** | | |
| **Class Id** |  | **Course Title** |  |
| **Student Id** |  | **Student Name** |  |
| **Total Marks** | 05 | **Obtained Marks** |  |

**QUESTION:**

1. Any number of readers may simultaneously be reading from a file. Only one writer at a time may write to a file, and no reader can be reading while a writer is writing. Using semaphores, write a solution to the readers and writers problem that gives priority to readers.