**CSI3344 Principles of Distributed Systems**

# Workshop 08

Q1. A file is replicated on 9 servers. List all the combinations of read quorum and write quorum that are permitted by the voting algorithm (Gifford's Quorum Scheme). Explain your answer.

List the best combination/s of legal read quorum and write quorum, that is, ($N_R$, $N_W$) that makes $N_R + N_W$ minimum.

*The following question is Optional*

Q2. For active replication to work in general, it is necessary that all operations be carried out in the same order at each replica. Is this ordering always necessary?

**END OF THE WORKSHOP**