INFSCI 2750: Cloud Computing

Total: 10 points

Name: …… Pitt email ID: ……

Please mark T/F to indicate true/false: (10 points)

T **F** 1 A key assumption of GPS is that the system is built from many in inexpensive commodity components that do not often fail

T F 2 The chunk server in GPS maintains all the system metadata including the namespace, access control information, the map-ping from files to chunks, and the current locations of chunks

T F 3 The GPS master monitors chunk server status with regular HeartBeat messages.

T F 4. Each chunk server independently verifies the integrity of its own copy by maintaining checksums

T F 5. In GPS, users can specify different replication levels for different parts of the file namespace

T **F (Both consider correct)** 6. The MapReduce abstraction is inspired by the map and reduce primitives present in Fortran and many other functional languages

T F 7. In MapReducer, for each completed map task, the master stores the locations and sizes of the R intermediate file regions produced by the map task

T F 8. In the original Google MapReduce implementation, if the MapReduce master fails, the MapReduce computation in progress can be restored from the checkpointing information

T **F** 9. In the Google implementation of MapReduce, storage is provided by highly reliable disks attached directly to individual machines

T **F** 10. Every time a map task fails, the MapReduce job is restarted to begin new execution.