These are the questions and answers to Quiz #3:

01 In a MapReduce program, Combiners are useful to:
o Combine and summarise the outputs produced by Reducers
o Speedup the computations performed inside Mappers
X Reduce network traffic
o All of the above

02 Which of the following statements is true regarding shuffle and sort in MapReduce?
o Shuffle and sort is in charge of aggregating the outputs produced by Mappers based on the produced value of each <key, value> pair.
o The logic for shuffling and sorting must be defined by the programmer
X Shuffle and sort is automatically handled by the framework
o None of the above

03 In a MapReduce program, you must use only Writable and WritableComparable throughout the whole implementation (code) of your solution. The use of Java primitive data types and objects are not allowed anywhere in the code:
o True
X False

04 Which of the following statements is true about MapReduce?
o Programmers must always be aware of where map and reduce is running in the cluster, as otherwise the solution will not be correct
o Programmers must keep track of which key is processed by each reducer
X Programmers must provide the logic (implementation) for map tasks
o None of the above

05 MapReduce partitioners are useful for:
o Partitioning the input datasets (splits) to be processed by mappers
X Routing pairs of <key,value> to specific partitions
o Partitioning pairs of <key,value> into separate sets for the reduction of each key independently of the corresponding value
o Creating partitions on top of which the map task can perform its computation more efficiently