Week 5 Assignment 5

The due date for submitting the assignment is next Thursday at 11:59 PM. Please submit your assignment through the BrightCloud SafeAssign system. Unplagiarized submissions will receive full credit. Any form of cheating or plagiarism will result in a zero grade.

1. Statement: 1. If the ideal gas law is satisfied, the pressure will be proportional to the volume of the gas.
   (a) True
   (b) False
   Correct answer: (a) True

2. Statement: 1. If the ideal gas law is satisfied, the pressure will be inversely proportional to the volume of the gas.
   (a) True
   (b) False
   Correct answer: (a) True

3. Statement: 1. If the ideal gas law is satisfied, the pressure will be directly proportional to the volume of the gas.
   (a) True
   (b) False
   Correct answer: (b) False

4. Statement: 1. If the ideal gas law is satisfied, the pressure will be inversely proportional to the volume of the gas.
   (a) True
   (b) False
   Correct answer: (b) False

5. What of the following are helpful to save energy in computing?
   (a) Reduce server usage
   (b) Increase time to perform an allocation
   (c) Reduce memory size
   (d) Reduce time
   Correct answer: (a), (c), (d)

6. What of the following are not helpful to save energy in computing?
   (a) Reduce server usage
   (b) Increase time to perform an allocation
   (c) Reduce memory size
   (d) Reduce time
   Correct answer: (b)

7. The relationship between the number of processing cores used and power consumption is
   (a) Inversely proportional
   (b) Directly proportional
   (c) Cannot be defined
   Correct answer: (a)

8. Which of the following functions is responsible for consolidating the results produced by each of the MapReduce workers?
   (a) Merge
   (b) Mapper
   (c) Reducer
   (d) None of the above
   Correct answer: (c)

9. Which of the following is responsible for the processing time or server location of data and producing the final results?
   (a) Nip Tuck
   (b) Basher
   (c) Reduce
   (d) None of the above
   Correct answer: (c)

10. Statement: 1. Only one map task is generated by the input from the global file system.
    Statement: 2. All map and reduce tasks are initialized by the local file system.
    (a) Both are TRUE
    (b) Both are FALSE
    Correct answer: (b) Both are FALSE