

Status	Finished
Started	Saturday, 3 January 2026, 13:41
Completed	Saturday, 3 January 2026, 13:42
Duration	31 secs
Marks	5.00/5.00
Grade	10.00 out of 10.00 (100%)

Question 1

Correct

Mark 1.00 out of 1.00

MapReduce is a ✓ , while Hadoop is ✓ of MapReduce.

Your answer is correct.

The correct answer is:

MapReduce is a [programming model/framework], while Hadoop is [an implementation] of MapReduce.

Question 2

Correct

Mark 1.00 out of 1.00

What do we mean with shuffling in a MapReduce context?

- ☐ a. Splitting data into partitions.
- ☐ b. Rearranging data before sorting it.
- ☒ c. Transferring data through the network. ✓

Your answer is correct.

The correct answer is:

Transferring data through the network.

Question 3

Correct

Mark 1.00 out of 1.00

Which functions does a user need to define in MapReduce?

- ☒ a. map() ✓
- ☐ b. shuffle()
- ☐ c. pre-aggregate()
- ☐ d. sort()
- ☒ e. reduce() ✓

Your answer is correct.

The correct answers are:

map(),
reduce()

Question 4

Correct

Mark 1.00 out of 1.00

An embarrassingly parallel program/algorithm..

- ☐ a. ..requires communication among the parallel processes.
- ☒ b. ..splits processing into independent tasks. ✓
- ☐ c. ..requires a global variable (state) among the parallel processes.

Your answer is correct.

The correct answer is:

..splits processing into independent tasks.

Question 5

Correct

Mark 1.00 out of 1.00

Match the answers to the following questions:

What is the size of an HDFS block by default?

64MB



What is the characteristic of HDFS wrt updates?

HDFS data is immutable.



Why are HDFS blocks replicated 3 times?

For fault-tolerance and load balancing reasons.



Your answer is correct.

The correct answer is:

What is the size of an HDFS block by default? → 64MB,

What is the characteristic of HDFS wrt updates? → HDFS data is immutable.,

Why are HDFS blocks replicated 3 times? → For fault-tolerance and load balancing reasons.