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/ QUIZ 2 - BIG DATA ANALYTICS (13.04.2022 - 7.15 PM to 8.00 PM)

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State	Finished
Completed on	Wednesday, 13 April 2022, 7:27 PM
Time taken	12 mins 18 secs
Grade	**29.00** out of 30.00 (**97**%)

Question **1**

Correct

Mark 1.00 out of 1.00

A _____ node acts as the Slave and is responsible for executing a Task assigned to it by the JobTracker.

⦿ TASK TRACKER   ✔

◯ MAPPER

◯ JOB TRACKLER

◯ MAP REDUCE

Your answer is correct.

The correct answer is:
TASK TRACKER

Question **2**

Incorrect

Mark 0.00 out of 1.00

_____ part of the MapReduce is responsible for processing one or more chunks of data and producing the output results.

◯ MAPPER

⦿ TASK EXECUTION   ✘

◯ MAPTASK

◯ ALL THE OPTIONS GIVEN

Your answer is incorrect.

The correct answer is:
MAPTASK

Question **3**

Correct

Mark 1.00 out of 1.00

_____ function is responsible for consolidating the results produced by each of the Map() functions/tasks.

- ◉ REDUCE   ✔
- ○ MAP
- ○ ALL THE OPTIONS GIVEN
- ○ REDUCER

Your answer is correct.

The correct answer is:
REDUCE

Question **4**

Correct

Mark 1.00 out of 1.00

Point out the wrong statement.

- ○ The MapReduce framework operates exclusively on <key, value> pairs

- ○ Applications typically implement the Mapper and Reducer interfaces to provide the map and reduce methods

- ○ A MapReduce job usually splits the input data-set into independent chunks which are processed by the map tasks in a completely parallel manner

- ◉ NONE OF THE OPTIONS GIVEN   ✔

Your answer is correct.

The correct answer is:

NONE OF THE OPTIONS GIVEN

Question **5**

Correct

Mark 1.00 out of 1.00

Although the Hadoop framework is implemented in Java, MapReduce applications need not be written in _____

○ NONE OF THE OPTIONS GIVEN

◉ JAVA   ✔

○ C

○ C #

Your answer is correct.

The correct answer is:
JAVA

Question **6**

Correct

Mark 1.00 out of 1.00

_____ is a utility which allows users to create and run jobs with any executables as the mapper and/or the reducer.

○ Hadoop Strdata

○ Hadoop Stream

○ NONE OF THE OPTIONS GIVEN

◉ Hadoop Streaming   ✔

Your answer is correct.

The correct answer is:
Hadoop Streaming

Question **7**

Correct

Mark 1.00 out of 1.00

_____ maps input key/value pairs to a set of intermediate key/value pairs.

- ⦿ MAPPER ✔
- ◯ REDUCER
- ◯ NONE OF THE OPTIONS GIVEN
- ◯ BOTH MAPPER AND REUCER

Your answer is correct.

The correct answer is:
MAPPER

Question **8**

Correct

Mark 1.00 out of 1.00

The number of maps is usually driven by the total size of _____

- ◯ NONE OF THE OPTIONS GIVEN
- ◯ TASKS
- ⦿ INPUTS ✔
- ◯ OUTPUTS

Your answer is correct.

The correct answer is:
INPUTS

Question **9**

Correct

Mark 1.00 out of 1.00

_____ is the default Partitioner for partitioning key space.

- ⊙ HashPartitioner   ✔

- ○ Partitioner

- ○ HashPar

- ○ NONE OF THE OPTIONS GIVEN

Your answer is correct.

The correct answer is:
HashPartitioner

Question **10**

Correct

Mark 1.00 out of 1.00

Running a _____ program involves running mapping tasks on many or all of the nodes in our cluster.

- ○ REDUCER

- ○ ALL OF THE OPTIONS GIVEN

- ○ MAP

- ⊙ MAPREDUCE   ✔

Your answer is correct.

The correct answers are:
MAPREDUCE,

MAP

Question **11**

Correct

Mark 1.00 out of 1.00

_____ is the architectural center of Hadoop that allows multiple data processing engines

- ⦿ YARN ✔
- ○ INCUBATOR
- ○ CHUCKWA
- ○ HIVE

Your answer is correct.

The correct answer is:
YARN

Question **12**

Correct

Mark 1.00 out of 1.00

POINT OUT THE CORRECT STATEMENT

- ○ YARN ENHANCES A HADOOP COMPUTE CLUSTER IN MANY WAYS
- ⦿ ALL OF THE OPTIONS GIVEN ✔
- ○ YARN ALSO EXTENDS THE POWER OF HADOOP TO INCUMBENT AND NEW TECHNOLOGIES FOUND WITHIN THE DATA CENTER
- ○ YARN IS THE CENTRAL POINT OF INVESTMENT FOR HORTONWORKS WITHIN THE APACHE COMMUNITY

Your answer is correct.

The correct answer is: ALL OF THE OPTIONS GIVEN

Question **13**

Correct

Mark 1.00 out of 1.00

YARN's dynamic allocation of cluster resources improves utilization over more static _____ rules used in early versions of Hadoop,

○ ALL OF THE OPTIONS GIVEN

○ HIVE

○ IMPHALA

◉ MAPREDUCE   ✔

Your answer is correct.

The correct answer is: MAPREDUCE

Question **14**

Correct

Mark 1.00 out of 1.00

The _____ is the framework specific entity that negotiates resources from the Resource Manager.

○ Resource Manager

○ Node Manager

◉ Application Master   ✔

○ All of the Options given

Your answer is correct.

The correct answer is: Application Master

Question **15**

Correct

Mark 1.00 out of 1.00

Point out the Wrong Statement

○ From the system perspective, the Application Master runs as a normal container

◉ The Resource Manager is the per machine slave, which is responsible for launching the applications' containers ✔

○ The Node Manager is the per machine slave, which is responsible for launching the applications' containers, monitoring their resource usage

○ None of the options given

Your answer is correct.

The correct answer is:
The Resource Manager is the per machine slave, which is responsible for launching the applications' containers

Question **16**

Correct

Mark 1.00 out of 1.00

Apache Hadoop YARN stands for

◉ Yet Another Resource Negotiator ✔

○ All of the options given

○ Yet Another Reserve Negotiator

○ Yet Another Resource Network

Your answer is correct.

The correct answer is: Yet Another Resource Negotiator

Question **17**

Correct

Mark 1.00 out of 1.00

MapReduce has undergone a complete overhaul in Hadoop is _____

- ○ 0.21
- ○ 0.24
- ○ 0.26
- ◉ 0.23   ✔

Your answer is correct.

The correct answer is: 0.23

Question **18**

Correct

Mark 1.00 out of 1.00

The _____ is the ultimate authority that arbitrates resources among all the applications in the system.

- ◉ Resource Manager   ✔
- ○ Application Master
- ○ Node Manager
- ○ All of the options given

Your answer is correct.

The correct answer is: Resource Manager

Question **19**

Correct

Mark 1.00 out of 1.00

The _____ is responsible for allocating resources to the various running applications subject to familiar constraints of capacities, queues etc.

- ◉ Scheduler   ✔
- ○ NONE OF THE OPTIONS GIVEN
- ○ Master
- ○ Manager

Your answer is correct.

The correct answer is: Scheduler

Question **20**

Correct

Mark 1.00 out of 1.00

The CapacityScheduler supports _____ queues to allow for more predictable sharing of cluster resources.

- ○ Networked
- ○ None of the Options given
- ◉ Hierarchical   ✔
- ○ Partition

Your answer is correct.

The correct answer is: Hierarchical

Question **21**

Correct

Mark 1.00 out of 1.00

The MapReduce algorithm contains two important tasks, namely _____.

- ◉ Map, Reduce   ✔
- ○ mapping, reduction
- ○ mapped, reduce
- ○ Map, Reduction

Your answer is correct.

The correct answer is: Map, Reduce

Question **22**

Correct

Mark 1.00 out of 1.00

_____ takes a set of data and converts it into another set of data, where individual elements are broken down into tuples (key/value pairs)

- ◉ Map   ✔
- ○ Both Map and Reduce
- ○ Reduce
- ○ None

Your answer is correct.

The correct answer is: Map

Question **23**

Correct

Mark 1.00 out of 1.00

_____ task, which takes the output from a map as an input and combines those data tuples into a smaller set of tuples

- ⦿ REDUCE   ✔
- ○ NODE
- ○ BOTH MAP AND REDUCE
- ○ MAP

Your answer is correct.

The correct answer is: REDUCE

Question **24**

Correct

Mark 1.00 out of 1.00

In how many stages the MapReduce program executes?

- ○ 4
- ○ 5
- ○ 2
- ⦿ 3   ✔

Your answer is correct.

The correct answer is:
3

Question **25**

Correct

Mark 1.00 out of 1.00

Which of the following is used to schedules jobs and tracks the assign jobs to Task Tracker?

○ Task Tracker

○ Slave Node

○ Master Node

◉ Job Tracker   ✔

Your answer is correct.

The correct answer is:
Job Tracker

Question **26**

Correct

Mark 1.00 out of 1.00

Which of the following is used for an execution of a Mapper or a Reducer on a slice of data?

○ Mapper

○ PayLoad

◉ Task   ✔

○ Job

Your answer is correct.

The correct answer is: Task

Question **27**

Correct

Mark 1.00 out of 1.00

Which of the following command runs a DFS admin client?

- ○ dfsadmin   ✔

- ○ secondaryadminnode

- ○ adminsck

- ○ nameadmin

Your answer is correct.

The correct answer is:
dfsadmin

Question **28**

Correct

Mark 1.00 out of 1.00

Point out the correct statement

- ○ None of the options given

- ○ Reduce Task in MapReduce is performed using the Map() function

- ○ MapReduce tries to place the data and the compute as close as possible   ✔

- ○ Map Task in MapReduce is performed using the Mapper() function

Your answer is correct.

The correct answer is:
MapReduce tries to place the data and the compute as close as possible

Question **29**

Correct

Mark 1.00 out of 1.00

YARN is the one who helps to manage the resources across the _____.

- ⦿ Clusters ✔
- ◯ Hadoop System
- ◯ Negotiator
- ◯ Jobs

Your answer is correct.

The correct answer is: Clusters

Question **30**

Correct

Mark 1.00 out of 1.00

Yarn commands are invoked by the _____ script.

- ◯ Hadoop
- ◯ Home
- ◯ Hive
- ⦿ Bin ✔

Your answer is correct.

The correct answer is:

Bin

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