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## Storm CH3-6 B3B4

☑ 考试时间: 2021.01.06 14:40 至 2021.01.06 15:25

▲ 总分: 100 ◎ 时长: 45 分钟

批阅进度 成绩已发布,分数 55 分

老师评语 试卷已批阅,继续努力

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一、单选题 (100分)	
1. 【单选题】 (2.5分)	
DirectGrouping will ( )	
○ A. send tuples to one particular downstream task	
O B. send same tuple to same downstream task	
○ C. send tuples to all downstream tasks	
O. send tuples to random downstream task	
回答错误,得分 D 参考答案 A	
2. 【单选题】 (2.5分)	
Config conf = new Config();	
conf.setNumWorkers(2);	
topologyBuilder.setSpout("spout", new BlueSpout(), 2);	
topologyBuilder.setBolt("green-bolt", new GreenBolt(), 2) .setNumTasks(4)	
.shuffleGrouping("spout");	
StormSubmitter.submitTopology( "mytopology", conf, topologyBuilder.createTopology());	
Consider the above code, what is the parallelism of the topology named "mytopology"? ( )	
○ A. 16	
○ B. 4	答题卡
○ C. 12	

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参考答案 B

3. 【单选题】 (2.5分)	
Nimbus进程的作用不包括( )	
○ A. 分配任 <del>务</del>	
○ B. 创建拓扑的本地目录,并将拓扑jar文件上传	
○ C. 监控worker心跳,计算工作量	
○ D. 监控zookeeper的数据,启动Topology任务	
✓ 回答正确,得分 2.5	
参考答案 D	
4. 【单选题】 (2.5分)	
SimpleHBaseMapper mapper = new SimpleHBaseMapper() .withRowKeyField("word") .withColumnFields(new Fields("word")) .withColumnFamily("cf"); Consider the above code, find out which saying is not correct? ( )  A. This SimpleHBaseMapper uses the value of the word field in the tuple as the rowkey of the Hbase table to be written.  B. This SimpleHBaseMapper uses the value of the count field in the tuple as a Hbase stardard c olumn and also counter a column.  C. This SimpleHBaseMapper uses cf as the column family name in the HBase table to be writte n.  D. Need to specify a HBase table in SimpleHBaseMapper.	
5. 【单选题】 (2.5分)	
For storm cluster installation with H/A between machine niit01 and niit02, we need to set that ? ( )	答题卡
○ A. nimbus.seeds	
○ B. storm.zookeeper.servers	

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0 1 (0 0 1 10
4).shuffleGrouping("spout"); er per executor thread for my- spout component? (   )
then output to the stream. ( )

关于tuple的可靠处理,描述不正确的是 ( )

- A. 在一个tuple被成功处理后,需要使用ack方法来标记成功,fail方法标记失败
- B. 要想实现tuple的可靠处理,发送新的消息时需要和作为输入的消息进行锚定(Anchor)

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○ D. 当使	用ack标记某个tuple为成功时,这个tuple所属的tuple树就会被认定为已处理
	回答正确,得分 <b>2.5</b>
	参考答案 D
9. 【单选题】	】 (2.5分)
陈述A: 由	slot failure(任务插槽故障),说法正确的是?( ) 于supervisor是无状态的,所以在它重新启动之前不会影响当前运行的任务 果集群中的部分supervisor故障,我们将无法提交新的拓扑程序
○ A. A、	B都对
○ B. A、 I	B都错
○ C. A错	B对
〇 D. A对	B错
8	回答错误,得分 🛭
	参考答案 D
10. 【单选匙	瓦】 (2.5分)
In word	count trident topology what operation will not be used ? ( )
○ A. gro	оирВу
○ B. bro	padcast
○ C. glo	obal
○ D. sh	uffle
	回答正确,得分 <b>2.5</b>
	参考答案 B
11. 【单选题	图】 (2.5分)

Facebook 公司使用 \_\_\_\_ 和 \_\_\_\_ 处理实时处理 ( )

- O A. S4、HDFS
- OB. Puma、Hbase
- C. Hadoop、Hbase

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✓ 回答正确,得分 2.5
参考答案 B
12.【单选题】 (2.5分)
默认情况下supervisor将等待多长时间以确保worker进程被启动( )
○ A. 60
○ B. 120
○ C. 30
○ D. 150
✓ 回答正确,得分 2.5
参考答案 B
13.【单选题】 (2.5分)
Statement A: Topology is the set of diagram with spouts and bolts.  Statement A: Topology is the set of diagram with data sources and data operations.  Which statement is right ? ( )
○ A. Both are right.
○ B. Only A is right.
○ C. Only B is right.
○ D. Both are wrong.
✓ 回答正确,得分 2.5
参考答案 A
14. 【单选题】 (2.5分)

What technology would you suggest to process data stream and persist results into database and also real-time query? ( )

- O A. Storm
- B. Hadoop

答题卡

✓ 回答正确,得分 2.5

参考答案 A

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○ A. HBaseBolt -> HBaseMapper -> Create HBase Table -> upload Topology to Storm Cluster	
○ B. HBaseBolt -> HBaseMapper -> Create HBase Table -> upload Topology to Storm Cluster	
○ C. HBaseMapper -> HBaseBolt -> upload Topology to Storm Cluster -> Create HBase Table ->	
O. HBaseMapper -> HBaseBolt -> Create HBase Table -> upload Topology to Storm Cluster	
参考答案 D	
16.【单选题】 (2.5分)	
拓扑中实际进行数据处理的组件是 ( )	
○ A. Worker	
○ B. Task	
○ C. Executor	
○ D. Supervisor	
✓ 回答正确,得分 2.5	
参考答案 B	
17. 【单选题】 (2.5分)	
For creating a DRPC topology, we don't need to ( )	
○ A. Set the function name.	
○ B. Set stream grouping	
○ C. Set spout	
○ D. Set bolt	
図 回答错误,得分 □	
参考答案 C	
18.【单选题】 (2.5分)	答题卡
哪些选项可以保证取消消息的可靠处理机制 ( )	
· · · · · · · · · · · · · · · · · · ·	

○ A. 将变量Config.TOPOLOGY\_ACKERS 设置为null

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○ C. Bolt使用emit发送一个消息时,不锚定到输入消息上。	
○ D. 在Bolt中使用ack和fail方法标记消息被成功处理与否	
✓ 回答正确,得分 2.5	
参考答案 C	
19. 【单选题】 (2.5分)	
Real-time stream processing is asynchronized in nature ? ( )	
○ A. false	
○ B. true	
✓ 回答正确,得分 2.5	
参考答案 B	
20. 【单选题】 (2.5分)	
S4 system is developed by which company ? ( )	
○ A. Facebook	
○ B. Yahoo	
○ C. Google	
○ D. Twitter	
✓ 回答正确,得分 2.5	
参考答案 B	
21. 【单选题】 (2.5分)  Which combination of spout and state can achieve exactly on	oco comentic 2 ( )
A. non-transaction-spout and transaction-state	ice semantic : ( )
B. opaque-transaction-spout and transaction-state	
○ C. transaction-spout and transaction-state	答题卡
O. D. transaction-spout and non-transaction-state	
図答错误,得分 0	

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22.	【单选题】 (2.5分)	
	Delucia想要对"topo"拓扑进行重平衡,将worker数量调整为3个,并且将"comp"组件设置为5个线程来运行,以下哪个求?()	选项可以帮助他完成
	○ A. bin/storm rebalance -n 5 -e comp=5	
	○ B. bin/storm rebalance -w 5 -e comp=5	
	○ C. bin/storm rebalance -w 5 -e comp 5	
	O. bin/storm rebalance -n 5 -e comp 5	
	<ul><li>✓ 回答正确,得分 2.5</li><li>参考答案 A</li></ul>	
22		
23.	.【单选题】(2.5分)	
	By using which database we can define a standard column but also a counter column? ( )	
	○ A. Redis	
	O B. Cassandra	
	○ C. HBase	
	O. MySQL	
	✓ 回答正确,得分 2.5	
	参考答案 C	
24.	. 【单选题】 (2.5分)	
	By default, each supervisor node hasslots for workers. ( )	
	○ A. 1	
	○ B. 4	
	○ C. 3	
	○ D. 2	
	✓ 回答正确,得分 2.5	答题卡
	参考答案 B	

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```
Now define a filter class like this:
   class SumFilter extends BaseFilter {
   public boolean isKeep(TridentTuple tuple) {
   int a = tuple.getInteger(1);
   int b = tuple.getInteger(2);
     if (a = b) {
     return true;
     return false;
   }
   If the input stream is [0,1], [2,3], [4,4], then what will be the output? ( )
   O A. [4,4]
   ○ B. [2,3], [4,4]
   O. Compile error will occur.
   O. [0,1], [2,3]
           回答错误,得分 0
           参考答案 C
26. 【单选题】 (2.5分)
   Real-time processing is Synchronous in nature.? ( )
   O A. false
   OB. true
           回答正确,得分 2.5
           参考答案 A
27. 【单选题】 (2.5分)
   哪段代码可以在本地模式下运行拓扑? ()
   ○ A. LocalCluster.submitTopology("word-count", conf, builder.createTopology());
   ○ B. new LocalCluster().submitTopology("word-count", conf, builder.createLocalTopology());
   ○ C. new LocalCluster().submitTopology("word-count", conf, builder.createTopology());
                                                                                                                           答题卡
   \label{eq:cont_pology} O. Local Cluster. submit Topology ("word-count", conf, builder. create Local Topology ());
           回答正确,得分 2.5
```

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28.	【单选题】 (2.5分)	
	Statement A: By using Storm web UI we can kill a topology in Storm cluster Statement B: By using Storm web UI we can upload a topology in Storm cluster Which option is correct regarding the above statements? ( )	
	○ A. B true A false	
	○ B. A false B false	
	○ C. A true B false	
	O. A true B true	
	図答错误,得分 □	
	参考答案 C	
20	【单选题】 (2.5分)	
	In wordcount topology what grouping method will you use for the counting task? ( )	
	A. fieldsGrouping	
	○ B. allGrouping	
	○ C. globalGrouping	
	O. shuffleGrouping	
	図答错误,得分 0	
	参考答案 A	
30.	【单选题】 (2.5分)	
	A series of data records that are infinite in time distribution and number. Its calculation and analysis can dynamic a in real-time.	mically refresh user acc
	The statement above is talking about ( )	
	○ A. batch process	
	○ B. stream process	
	図答错误,得分 0	ÆRT ⊢
	参考答案 B	答题卡

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	···································	
	○ A. Supervisor	
(	O B. Nimbus	
	✓ 回答正确,得分 2.5	
	参考答案 B	
32.	32.【单选题】 (2.5分)	
	builder.setBolt("my-bolt", new MyBolt(), 2).setNumtasks(4).shuffleGroupid Consider the above code, find out what is the task number per executor	
	○ A. 3	
	○ B. 1	
(	○ C. 2	
	○ D. 4	
	✓ 回答正确,得分 2.5	
	参考答案 C	
33.	33. 【单选题】 (2.5分)	
1	Mapstate interface is for ( )	
	A. Updating Trident State	
	○ B. Delete Trident State	
	○ C. Insert Trident State	
(	○ D. Query Trident State	
	▼ 回答错误,得分 0	
	参考答案 A	

## 34. 【单选题】 (2.5分)

Statement A: Topology is the set of diagram with spouts and bolts Statement B: Topology is the set of diagram with data source and data operations. Which option is correct regarding the above statements? ( )

答题卡

O A. A true B true

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○ <b>C</b> .	A true B talse
○ D	. B true A false
	✓ 回答正确,得分 2.5
	参考答案 A
35.【单	选题】 (2.5分)
阅读 陈述	下面关于Spout和Bolt的两个陈述,选择正确答案( ) A:每个组件(Spout或者Bolt)的构造方法和declareOutputFields方法都只调用一次。 B:每个组件(Spout或者Bolt)的open方法、prepare方法都只调用一次。
$\bigcirc$ A	A、B都对
○ B.	A对B错
○ C.	A错B对
$\bigcirc$ D	. A、B都错
•	図答错误,得分□
	参考答案 B
36.【单	选题】 (2.5分)
Whi	ch saying is incorrect? ( )
$\bigcirc$ A	Redis stores Key Values pairs
○ B.	Redis is used as a relational database
○ C.	Redis is faster than MySQL
$\bigcirc$ D	. Redis supports on-disk persistence
	✓ 回答正确,得分 2.5
	参考答案 B

## 37. 【单选题】 (2.5分)

Which one for the following is wrong about Nimbus? (  $\,$  )

 $\ \ \bigcirc$  A. nimbus is responsible for the monitoring the status of all the supervisor nodes

○ B. nimbus is stateless

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○ D. all of the above are right.
図答错误,得分□
参考答案 D
38.【单选题】 (2.5分)
Regarding to RedisStoreMapper insterface, which saying is not correct ( )
○ A. By using it we can store tuples into Redis database
O B. By using it we can define the Key type in Redis
○ C. By using it we can map a tuple to a Key Value pair to store in Redis database
O. By using it we can declare the output fields.
図答错误,得分□
参考答案 D
39. 【单选题】 (2.5分)
Which one of the following is the correct sequence of method call of in spout life cycle? ( )
A. open() -> activate() -> declareOutputFields()
O B. open() -> declareOutputFields() -> activate()
C. declareOutputFields() -> activate()->open()
D. declareOutputFields() -> open()-> activate()
参考答案 D
40. 【单选题】 (2.5分)
构建拓扑时如果设置worker进程数为2,哪段拓扑程序可以为任务"test"在每个worker进程中生成2个执行器线程,且每个线程会运行2个相同()
○ A. topologyBuilder.setBolt( "test" , new BoltTest(), 2) .setNumTasks(2);
○ B. topologyBuilder.setBolt( "test" , new BoltTest(), 4) .setNumTasks(4); 答题卡
○ C. topologyBuilder.setBolt( "test" , new BoltTest(), 2) .setNumTasks(4);
O. D. topologyBuilder.setBolt( "test" , new BoltTest(), 4) .setNumTasks(8):

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参考答案 D

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