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# Question 1

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## Question Type: MultipleChoice

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Which of the following is a valid Replica Set configuration if you want:

1- Have 3 copies of everything

2- That RS3 is never primary

2- That RSI and RS2 can be primary?

You had to see the different configurations, RS3 could be hidden or priority 0 (But not a referee because we need

3 replicas), while RSI and RS2 could NOT have priority 0 or be hidden or anything like that

In a 4-member RS RSO, RSI, RS2 and RS3 + Referee, RSO (primary) falls after some write operations that have

replicated RSI and RS2 (but NOT RS3), who can get up as the new primary?

The configuration comes and in it we see that RS2 has a hidden: true (or a priority: 0, (I don't remember)

## Options:

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A- ORS1

- B- ORS2
- C- ORS3
- D- O arbiter
- E- RSO

**Answer:**

---

A

## Question 2

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**Question Type:** MultipleChoice

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Consider the following documents:

```
{ "_id" : 1, "a" : 1, "b" : 1 }  
{ "_id" : 2, "a" : 2, "b" : 3 }  
{ "_id" : 3, "a" : 3, "b" : 6 }  
{ "_id" : 4, "a" : 4, "b" : 10 }  
{ "_id" : 5, "a" : 5, "b" : 15 }
```

You perform the following query;

```
db.stuff.update( { b : { $gte : 10 } },  
{ $set : { b : 15 } },  
{ multi : true, upsert : true } )
```

How many documents will be updated by the query?

**Options:**

---

A- 0

B- 1

C- 2

D- 3

E- 5

**Answer:**

---

B

## Question 3

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**Question Type:** MultipleChoice

---

Consider the following example document:

```
{  
  "_id": ObjectId("5360c0a0a655a60674680bbe"),  
  "user"  
  "login": "irOn"  
  "description": "Made of steel"  
  "date": ISODate("2014-04-30T09:16:45.836Z"),  
}
```

>

and index creation command:

```
db.users.createIndex( { "user.login": 1, "user.date": -1 }, "myIndex" )
```

When performing the following query:

```
db.users.find( { "user.login": /Air.*/ },  
{ "user":1, "_id":0 > }).sort( { "user.date":1 > }
```

which of the following statements correctly describe how MongoDB will handle the query? Check all that apply.

### Options:

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- A- As an optimized sort query (scanAndOrder = false) using 'myIndex' because we are sorting on an indexed field
- B- As an indexed query using 'myIndex' because field 'user.login' is indexed
- C- MongoDB will need to do a table/collection scan to find matching documents
- D- None of the above
- E- As a covered query using 'myIndex' because we are filtering out '\_id' and only returning 'user.login'

### Answer:

---

B

## Question 4

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### Question Type: MultipleChoice

---

Which of the documents below will be retrieved by the following query? Assume the documents are stored in a collection called "sample". Check all that apply.

```
db.sample.find( { "$or" : [ { "a" : { "$in" : [ 3, 10] } }, { "b" : { "$lt" : 2 } } ] } )
```

### Options:

---

- A- {"\_id": 3, 'a': 4, 'c': 0, 'b': 14}
- B- {"\_Jd": 7, 'a': 8, 'c': 1, 'b': 7}
- C- {'. Jd': 6, 'a': 1, 'c': 1, 'b': 5}
- D- {"\ Jd": 9, 'a': 17, 'c': 1, 'b': 1}
- E- {\ Jd': 10, 'a': 3, 'c': 1, 'b': 1}
- F- {'. Jd':: 2, 'a': 2, 'c':: 0, 'b': 1}
- G- {'. Jd':: 4, 'a': 5, 'c':: 0, 'b': 17}
- H- {'. Jd':: 1, 'a': 0, 'c':: 0, 'b': 2}
- I- {'. Jd':: 5, 'a': 3, 'c':: 0, 'b': 12}
- J- {'. Jd':: 8, 'a': 11, 'c': 1, 'b': 0}

### Answer:

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D, E, F, I, J

## Question 5

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Question Type: MultipleChoice

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Using an arbiter allows one to easily ensure an odd number of voters in replica sets. Why is this important?

**Options:**

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- A- To help in disaster recovery
- B- To protect against network partitions
- C- To enable certain read preference settings
- D- To add greater redundancy
- E- For more efficient backup operations

**Answer:**

---

B

## Question 6

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**Question Type: MultipleChoice**

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Dada una colección, cuales devuelve con la siguiente query

```
db.coleccion.find({nombre:"ruben",apellido:"gomez"},{nombre:l,apellido:l,aficion:l});
```



### Options:

---

- A- { '-id' : ObjectId('580a42b5dfblb5al7427d302'), 'nombre' : 'ruben', 'apellido' : 'gomez', 'aficion' : v u 'flipar' }
- B- { '\_id' : ObjectId('580a42acdfblb5al7427d301'), 'nombre' : 'Luis', 'apellido' : 'gomez', 'aficion' : u 'flipar' }
- C- { '\_id' : ObjectId('580a42acdfblb5al7427d301'), 'nombre' : 'ruben', 'apellido' : 'Pablo' , 'aficion' : u 'flipar' }
- D- { '\_id' : ObjectId('580a42acdfblb5al7427d301'), 'nombre' : 'ruben', 'apellido' : 'gomez' >

### Answer:

---

A, D

## Question 7

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### Question Type: MultipleChoice

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You perform the following operation in the shell: `db.foo.insert( { } );` What gets inserted?

### Options:

---

- A- A document will be inserted with the same `_id` as the last document inserted
- B- A document that matches the collection's existing schema, but with null fields
- C- A document with an `_id` assigned to be an ObjectId
- D- An empty document
- E- No document will be inserted; an error will be raised

**Answer:**

---

C

## Question 8

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**Question Type:** MultipleChoice

---

You perform the following query on the sayings collection, which has the index

```
{ quote : "text" }:
```

Assuming the documents below are in the collection, which ones will the following query return? Check all that apply.

```
db.sayings.find( { $text : { $search : "fact find" } } )
```

### Options:

---

A- { \_id : 3, quote : 'Nobody will ever catch me.' }

B- { \_id : 1, quote : 'That's a fact, Jack.' }

C- { \_id : 2, quote : 'Find out if that fact is correct.' }

### Answer:

---

B, C

## Question 9

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### Question Type: MultipleChoice

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You have the following index on the toys collection:

{

"manufacturer" : 1,

"name" : 1,

"date" : -1

```
}
```

Which of the following is able to use the index for the query? Check all that apply.

### Options:

---

**A-** db.toys.find( { name : 'Big Rig Truck', date : '2013-02-01', manufacturer : 'Tanko'

**B-** db.toys.find( { manufacturer : 'Matteo', name : 'Barbara', date : '2014-07-02' } )

**C-** db.toys.find( { date : '2015-03-01', manufacturer : 'Loggo', name : 'Brick Set' } )

### Answer:

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A, B, C

## Question 10

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### Question Type: MultipleChoice

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Given a replica set with five data-bearing members, suppose the primary goes down with operations in its oplog that have been copied from the primary to only one secondary. Assuming no other problems occur, which of the following describes what is most likely to happen?

**Options:**

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- A- missing operations will need to be manually re-performed
- B- the secondary with the most current oplog will be elected primary
- C- reads will be stale until the primary comes back up
- D- the primary may roll back the operations once it recovers
- E- the most current secondary will roll back the operations following the election

**Answer:**

---

B

## Question 11

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**Question Type: MultipleChoice**

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What read preference should your application use if you want to read from the primary under normal circumstances but allow reads from secondaries when a primary is unavailable?

**Options:**

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A- secondaryPreferred

B- Secondary

C- nearest

D- primary

E- primaryPreferred

**Answer:**

---

E

## Question 12

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**Question Type:** MultipleChoice

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Consider that the posts collection contains an array called ratings which contains ratings given to the post by various users in the following format:

```
{
  _id: 1,
  post_text: This is my first post,
  ratings: [5, 4, 2, 5],
  //other elements of document
}
```

Which of the following query will return all the documents where the ratings array contains elements that in some combination satisfy the query conditions?

### Options:

---

- A- `db.inventory.find( { ratings: { $elemMatch: { $gte: 3, $lte: 6 } } } )`
- B- `db.inventory.find( { ratings: { $elemMatch: { $gt: 3, $lt: 6 } } } )`
- C- `db.inventory.find( { ratings: { ratings.$: { $gt: 5, $lt: 9 } } } )`
- D- `db.inventory.find( { ratings: { ratings: { $gt: 5, $lt: 9 } } } )`

### Answer:

---

D

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