**What will happen if an index is created on a field that does not exist in any of**

**the documents in the collection?**

d) MongoDB will create the index but give no feedback

**How do a B-tree and a binary tree differ?**

a) A binary tree is a special case of a B-tree with n=2.

**Which index would you create to optimize your reads if you used only these queries in your application, plus queries that differed from these only in the value?**

find( { a : 5 , b : 10 } ) find( { a: { $gt : 5 } } ) find( { a : { $lt : 100 } } )

c) createIndex( { a : 1, b : 1 } )

**A MongoDB index can have keys of different types (i.e., ints, dates, string)**

b) False

**If an index is created with the options document, { unique : true }**

**can 2 documents which do not include the field that is indexed exist in the same collection?**

b) No

**Hint always works.**

b) False

**What are some disadvantages to having indexes that are not needed or not used? Check all that apply.**

b) Unused indexes need to be updated, slowing down updates, inserts and deletes

c) Unused indexes could use memory potentially causing unnecessary page faults

**Which ops are safe to kill (without any special effort or clean-up or implications later beyond the obvious):**

d) A foreground creates index building on a secondary

**The system profiler is on by default.**

b) False