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

**the documents in the collection?**

**Ans:-** d) MongoDB will create the index but give no feedback

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

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

3) **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 } } )

**Ans:-** c) createIndex( { a : 1, b : 1 } )

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

**Ans:-** a) Yes

5) **Hint always works.**

**Ans:-** b) False

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

**Ans:-** b) Unused indexes need to be updated, slowing down updates, inserts and deletes

c) Unused indexes could use memory potentially causing unnecessary page

faults

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

**Ans:-** a) A query

b) A findAndModify on a primary

c) A foreground creates index building on a primary

8) The system profiler is on by default.

**Ans:-** b) False