Q1:

|  |  |
| --- | --- |
|  | Machine generated alternative text: Which of these statements is/are true?  Check all that annl',r  ou can In ex mu e array le s In a singe ocumen WI  a Sing e  Covered queries can sometimes still require some of your documents to be  examined.  Write concern has no impact on write latency.  reating ascending index  monotonically i creasing value  dex keys the right-hand side the index tre  A collection scan has a logarithmic search time.  ate  Your submission has been saved, and will be graded when the problem closes.  Submit |
| Op1 | Assuming Array fields mean entries inside an array, and NOT document keys that have an array as values (which would lead to error) |
| Op2 | The it would NOT be called 'covered' in the first place |
| Op3 | Increasing Write Concern increases latency |
| Op5 | Linear Time |

Q2:

|  |  |
| --- | --- |
|  | Machine generated alternative text: Which of the following statements is/are true?  dexes can decrease insert throu h  In exes  a  er rom  s Impo  Impo  n  n  ensure  ensure  a secon anes WI  a  urs ar ey  as lg car Ina  Your submission has been saved, and will be graded when the problem closes.  Submit |
|  |  |

Q3:

|  |  |
| --- | --- |
|  | Machine generated alternative text: Which of the following statements is/are true?  Check all that apply:  MongoDB indexes are markov trees.  default all Mon ODB user-created collections have an id index  Background index builds block all reads and writes to the database that holds  the collection being indexed.  a  lication to reduce latenc .  Your submission has been saved, and will be graded when the problem closes.  Submit |
| Op1 | B Trees |
| Op3 | Foreground index creation blocks DB, not background build |
|  |  |

Q4:

|  |  |
| --- | --- |
|  | Machine generated alternative text: Which of the following statements is/are true?  a you can In  Check all that appl','  n exes are as o searc  ecause  ey reor ere suc  Under heavy write load you should scale your read throughput by reading  from secondaries.  When you index on a field that is an array it creates a partial index.  On a sharded cluster, aggregation queries using $100kup will require a merge  stage on a random shard.  Your submission has been saved, and will be graded when the problem closes.  Submit |
| Op:3 | Heavy write load will propagate to secondary as well, so no benefit |
| Op:4 | Creates a Multi-Key Index |
| Op:5 | $lookup is a special case that does merging on the primary |

Q5:

|  |  |
| --- | --- |
|  | Machine generated alternative text: Which of the following statements is/are true?  Check all that apply:  Compound indexes can service queries that filter on any subset of the index  keys.  Compound indexes can service queries that filter on a prefix of the index  If no indexes can be used then a collection scan will be necessary.  or server restart.  Your submission has been saved, and will be graded when the problem closes.  Submit |
| Op1 | Only on prefixes, thus Op2 is correct |
| Op3 | Collection scan can be used along with an index scan |