



Final Exam

M312 Final Exam, Question 2

Problem:

You have a replica set with the following parameters:

- All members have 1 vote
- Any delayed secondaries, if present, are delayed by 24 hours
- The wtimeout is set to 60 seconds (60,000 ms) for all writes
- Unless specified, all replica set members use the default settings in MongoDB 3.4.
- The replica set has 3 members
 - Including any delayed Secondaries
 - Including at most one Arbiter
- You are using a write concern of { w : "majority" } for all writes

You should also assume the following, in order to keep the problem simple:

- All parts of the system (the network, the servers, etc.) work as intended
- You will never lose enough servers to prevent a Primary from getting elected
- Any server can go down, and if it does, assume that it will stay down until any writes referenced in this problem have occurred on a Primary, and at least 60 seconds have passed.
- If a Primary goes down, a Secondary will be elected Primary in < 10 seconds
 - Any choices offered apply only to writes performed after a new Primary is elected, if applicable.
- "Any one server" can mean *any single mongod server process*: Primary, Secondary, Delayed Secondary, or Arbiter.

Which of the following is/are true?









Check all answers that apply:	
	For a replica set with two data bearing members and one Arbiter (no delayed Secondaries), the application can receive acknowledgment for writes if any one server is lost
	For a replica set with two standard data bearing members plus one delayed Secondary, the application can receive acknowledgment for writes if any one server is lost
	For a replica set with three standard data-bearing, non-delayed members, the application can receive acknowledgment for writes if any one server is lost
See de	etailed answer
	ignment is Due
	02hr:45m gru, 17:00 UTC
Your Grade	
	S/FAIL mitted