1. Select CORRECT facts about eventually consistent read and strongly consistent read in DynamoDB (select two)
   1. Eventually consistent read has higher latency then strongly consistent read
   2. Strongly consistent read returns most up-to-date data
   3. DynamoDB uses eventually consistent reads by default
   4. Eventually consistent read will fail if there is an outage
2. When developing your application with DynamoDB as a database, you can`t seem to predict your tables workload and application traffic is unpredictable. Due to how small your team is, there is no possibility to assign a person to scale DynamoDB when load changes. Which DynamoDB capacity mode suits your needs better?
   1. On-Demand mode
   2. Provisioned mode
3. Your team’s new member has just started working with DynamoDB. At one point he comes to you and whispers that he accidentally deleted one of the production tables. This data is crucial for your application and you must restore it to the latest point possible. What do you do? You have everything DynamoDB provides for backups enabled.
   1. Try to recreate the table manually, hoping that you remember each and every piece of data
   2. Restore the table with your on-demand backup
   3. Use system-backup created with Point-in-Time recovery
4. You are working on a weather application utilizing DynamoDB as a database. A data analytics team in your company needs to run a long-running analysis of regional weather data from DynamoDB. Previously, this resulted in consuming all read capacity in DynamoDB table, slowing down your applications, which use the same table and having customers complain. You have to suggest a DynamoDB native solution, which will make sure that this situation does not happen in future.
   1. Use DynamoDB Accelerator (DAX) to have weather analysis be performed against cached data
   2. Increase a number of read capacity units for the time of analysis
   3. Make a copy of data and move it to other DynamoDB table, so only data analytics team would read from it
5. What engine types are used in ElastiCache service?
   1. Redis
   2. Memcached
   3. Memory cache
   4. OrmLiteCacheClient
6. Which of these is true about ElastiCache Redis?(4 correct answers)
   1. Complex data objects, such as hashes, lists are supported
   2. Groups nodes in shards, which are included in cluster
   3. You can utilize read/write and read replicas
   4. Groups nodes in cluster
   5. Is a simple key/value store
   6. Supports up to 40 nodes in cluster
   7. Replicates data across all nodes in cluster
   8. Can have up to 6 nodes in shard
   9. For retrieving data from cluster you can use SQL
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8. You are working on setting up an ElastiCache service for your application. As having caching is crucial for your app, you want to ensure, that all the caching engine errors are reported automatically to a specific group of people. What is the simplest way to implement such case?
   1. Setup CloudWatch Logs to monitor events in cluster, filter them and send SNS notification through CloudWatch events. Subscribe people to SNS topic.
   2. Use CloudWatch Metrics to get errors, setup CloudWatch alert to send SNS notification, when errors breach a certain threshold. Subscribe people to SNS topic.
   3. ElastiCache can send events directly to SNS. Create/Choose a topic and subscribe people to SNS topic.
9. You are an architect for a gaming application which is in the design phase. Which of the following services can be used to ensure optimal performance and least latency for gaming users?
   1. AWS Auto Scaling
   2. AWS ELB
   3. AWS ElastiCache
   4. AWS VPC
10. You are designing a new application in AWS, which should have caching support. One of the requirements for caching service is backup/restore capabilities and stability. Complex data objects, such as lists, should be supported. Which AWS Service would you choose for such case?
    1. AWS ElastiCache Redis
    2. AWS ElasticSearch
    3. AWS ElastiCache Memcached
    4. AWS EC2 and install Redis on it
11. Which of these are characteristics of a Read Replica? (Possible Correct: 4)
    1. Can serve legitimate traffic
    2. Cannot be used for disaster recovery
    3. Helpful with disaster recovery
    4. Receives the offloaded work of master database
    5. Cannot be promoted to stand-alone database instances
    6. Cannot serve legitimate traffic
    7. Can be promoted to a stand-alone database instance
12. Which of these configuration or deployment practices is a security risk for RDS?
    1. Storing SQL function code in plaintext
    2. Non-Multi-AZ RDS instance
    3. Having RDS and EC2 instances exist in the same subnet
    4. RDS in a public subnet
13. A user plans to use RDS as a managed DB platform. Which of the below mentioned features is not supported by RDS?
    1. Automated backup
    2. Automated scaling to manage a higher load
    3. Automated failure detection and recovery
    4. Automated software patching
14. You have an AWS RDS PostgreSQL database hosted in the Singapore region. You need to ensure that a backup database is in place and the data is asynchronously copied. Which of the following would help fulfill this requirement?
    1. Enable Multi-AZ for the database
    2. Enable Read Replicas for the database
    3. Enable Asynchronous replication for the database
    4. Enable manual backups for the database