

## Practice Test with Answers

1. \_\_\_\_\_ is the original development language that App Engine originally supported when it was released to the public in 2008

- A. Python
- B. Java
- C. PHP
- D. Ruby

2. App Engine has several solid use cases? What are three uses cases specified in the module? Select Three

- A. Develop Apps
- B. Testing Apps
- C. Scaling Apps
- D. VDI Deployments
- E. SaaS Apps

3. App Engine services are specified to be \_\_\_\_\_?

Select One

- A. Regional
- B. Global
- C. Multi-Regional
- D. Zonal

4. Which version of App Engine would you specify to your customer if they are requiring the use of containers?

Select One

- A. App Engine Standard
- B. App Engine Flexible
- C. App Engine Flexible and Standard support this
- D. Not supported on App Engine, they must use Container Engine

**5. Which of the following two cloud provider services are considered to be competitors of App Engine? Select Two**

- A. AWS Elastic BeanStalk
- B. IBM Bluemix
- C. AWS S3
- D. Salesforce CRM

**6. As a software developer your considering using the GCP platform. What are three supported development languages on App Engine Standard?**

**Select Three**

- A. Python
- B. PHP
- C. Go
- D. .NET
- E. Ruby
- F. Ruby on Rails

**7. App Engine has two deployment versions What are the two versions? Select Two**

- A. App Engine Standard
- B. App Engine Flexible
- C. App Engine Advanced
- D. App Engine Base

**8. Your currently a developer for XYZ Corp. The team has asked you to deploy a Java 8 application. You realize that you can't use App Engine Standard because Java 7 is only Java version supported. What are your options? Select Two**

- A. Let the team know that this version is not supported on App Engine Standard
- B. App Engine Flexible will work with custom runtime
- C. App Engine Flexible will work with no customization
- D. Let the team know that this needs to be deployed internally

**9. Cloud BigTable is Google's NoSQL Big Data managed database service. What are two underlying design characteristics? Select Two**

- A. Consistent Low Latency
- B. Handles massive workloads
- C. Scalable to your in house database
- D. Enables sub microsecond latency

**10. Cloud SQL is a fully-managed database service that makes it easy to set-up, maintain, manage and administer your relational MySQL databases in the cloud. What are three benefits/features of using Cloud SQL?**

**Select Three**

- A. Flexible Pricing
- B. Managed Service
- C. Application Replication
- D. Enables sub microsecond latency
- E. Unmanaged service
- F. Enables sub millisecond latency

**11. \_\_\_\_\_ is a unified programming model and a managed service for developing and executing a wide range of data processing patterns including ETL, batch computation, and continuous computation**  
**Select One**

- A. Cloud Dataflow
- B. Cloud DataProc
- C. BigTable
- D. Cloud SQL

12. Use \_\_\_\_\_, an Apache Hadoop, Apache Spark, Apache Pig, and Apache Hive service, to easily process big datasets at low cost.

Select One

- A. Cloud Dataflow
- B. Cloud DataProc
- C. BigTable
- D. Cloud Pub/Sub

13. You are currently a developer at XYZ corp and you have over 60 projects deployed on GCP. It's been getting a bit hard to manage billing and resources. What is an option you could consider to enable a corporate wide approach with Google at Work? Select One

- A. Organization Node
- B. Corporate Account
- C. Use a third party solution
- D. GCP does not support this approach

14. You are currently a developer at XYZ corp and you have over 60 projects deployed on GCP. You would like to integrate SSO into your GCP and IT services. What are two features of SSO with GCP? Select Two

- A. Use your own authentication mechanism and manage your own credentials
- B. Google Apps Directory Sync integrates with LDAP
- C. Federate your AD Trees to Google Cloud Platform
- D. Federate your AWS accounts with Google Cloud Platform

15. With billing in GCP App Engine with Virtual Machines how does GCP bill for this resource? Select One

- A. Per Second basis
- B. Per Minute basis
- C. Per Day basis
- D. Per 30 Minute basis

16, \_\_\_\_\_ is the proper GCP storage service for object data. Select one.

- A. Cloud Storage
- B. Bigtable
- C. Cloud SQL
- D. Cloud Spanner

17. Your company is looking to utilize the power of the GCP Cloud. You need to setup you VMs with a stable block storage solution that is fully managed. What is the solution you need to specify? Select One

- A. Persistent Disk
- B. Cloud Storage
- C. Cloud SQL
- D. Google Drive

18. Google has specific layers to security. Specifically, around Storage security what are the two areas in the Google Infrastructure layer?

Select Two

- A. Encryption at Rest
- B. Deletion of Data
- C. Authentication
- D. DDoS Protection

19. \_\_\_\_\_ is comprised of clearly defined data types whose pattern makes them easily searchable usually in an RDBMS

**Select One**

- A. Structured
- B. Hybrid Structured
- C. Unstructured
- D. Semi-Structured

**20. Objects are \_\_\_\_\_, which means that an uploaded object cannot change throughout its storage lifetime.**

**Select One**

- A. Immutable
- B. Hardened
- C. Structured
- D. Mutable

**22. You have been asked by your IT Manager to setup some Cloud Storage for some in house data that will migrate the cloud. You have been told that you need to have an archive for data over 6 months. What Storage Class would you choose?**

**Select One**

- A. Nearline
- B. Coldline
- C. Multi-regional
- D. Regional

**23. Which of the following features are supported by GCP Cloud Storage?**

**Select Two**

- A. Object Versioning
- B. Object Lifecycle Management
- C. Object Analysis Management
- D. Object Antivirus

**23. Changes to configurations in Object Lifecycle Management can take up to how long?**

**Select One**

- A. 24 Hours
- B. 4 Hours
- C. 1 Hour
- D. 4 Minutes

**25. Cloud SQL is a fully-managed MySQL and PostgreSQL database service. What two variations of SQL does Cloud SQL Support?**

**Select Two**

- A. MySQL
- B. PostgreSQL
- C. Oracle SQL
- D. MS SQL

**26. Cloud SQL is a fully-managed MySQL and PostgreSQL database service. You need to scale this service for reads and writes. What type of scaling would you want to use?**

**Select One**

- A. Vertical
- B. Horizontal
- C. Diagonal
- D. Vertical and Horizontal

**27 Cloud Datastore scales to Exabytes of data capacity. True or false?**

**Select One**

- A. False
- B. True

**28. When comparing Cloud Datastore to SQL what is a “kind” compared to in SQL?**

**Select One**

- A. Entity
- B. Table
- C. Row
- D. Column

**29. Cloud SQL is a fully-managed database service that makes it easy to set-up, maintain, manage and administer your relational MySQL databases in the cloud. What are three benefits/features of using Cloud SQL?**

**Select Three**

- A. Flexible Pricing
- B. Managed Service
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- D. Enables sub microsecond latency
- E. Unmanaged service
- F. Enables sub millisecond latency



**30. Cloud BigTable has several features that make it a good choice for companies that want a low ops NoSQL databases service. What are the some of the features.**

**Select Two**

- A. Fully Managed NoSQL Service
- B. Learns and adjusts to patterns
- C. Scalable to your in house database
- D. Enables sub microsecond latency

**31. Cloud Bigtable is a fully managed relational database service. True or False**

**Select One**

- A. False
- B. True

**32. Cloud Spanner is the only enterprise-grade, globally-distributed, and strongly consistent database service built for the cloud specifically to combine the benefits of relational database structure with non-relational horizontal scale.**

**True or False**

**Select One**

- A. True
- B. False

**33. Cloud Spanner has several features that provide availability and reliability.**

**Select Two**

- A. Managed by the Google SRE Team
- B. Horizontal Scalability
- C. Scalable to your in house database
- D. Vertical Scalability

34. \_\_\_\_\_improve your application availability by spreading your instances across three zones. Select One

- A. Multi-Regional managed groups
- B. Multi-Zonal managed groups
- C. Regional managed groups
- D. Zonal managed groups

35. When we setup a project in GCP what are the two main benefits of using a project? (Select Two).

- A. No Benefit
- B. Associate objects with costs and services
- C. Can also create additional networks (Max 5)
- D. Can also create organizations (Max 5)

36. What would be the proper IP schema based on the following scenario.

You have been contacted by a major railroad that would like to setup their applications and VMs in the GCP cloud. Customer is asking that their GCP services are setup with an ephemeral IP address range that is dedicated to their services. They also don't expect this to be the lowest cost option and would prefer a static network solution. What type of IP schema would you recommend to the customer to use in the GCP Cloud? (Select one)

NOTE: You will need to know how and when to use specific IP schemas.

- A Static
- B Internal
- C. External
- D. Dedicated

37. A \_\_\_\_\_ image is a baked image has everything set and tested and is ready for production use.

- A. Templated
- B. Golden**
- C. Sysprepd
- D. Templated

38. What type of image will determine the kind of support and standards you can expect? (Select One)

- A. Base**
- B. Standard
- C. Golden
- D. Depracated

39. Your company is thinking about migrating their VMS to GCP. They would like to ensure they can migrate the VM Images to any zone in the GCP Cloud. Your CIO would also like to know if that's possible and why he should do this? (Select one)

No VM Images are zonal resources and so the image must stay in that zone.

**Yes, VM Images are Global Resources and thus can be moved around zones.**

40. You are currently considering migrating your VMs to another region. The Instance you want to migrate you are trying to move you receive an error on. Why?

- A. The Virtual Machine instance is a global resource
- B. The Virtual Machine instance is a Regional resource
- C. The Virtual Machine Instance is zonal resource**
- D. The Virtual Machine Instance is a Multi-Regional resource

41. \_\_\_\_\_ is a fully-managed real-time messaging service that allows you to send and receive messages between independent applications Fill in the blank with the best answer (Select One)

- A. Cloud DataLab
- B. Cloud DataFlow
- C. Cloud SQL
- D. **Cloud Pub/Sub**

42. Your developers have been writing mobile front end client code for mobile applications to make use of Cloud applications. What would free up your developers from having to writing wrappers to access App Engine resources from a mobile or web client?

(Select One)

- A. Better coding
- B. Cloud DataFlow
- C. Cloud DataProc
- D. **Cloud Endpoints**

43. Cloud \_\_\_\_\_ is a sparsely populated table that can scale to billions of rows and thousands of columns and therefore allowing you to store terabytes or even petabytes of data. What is this GCP Service? (Select One)

- A. Cloud SQL
- B. **BigTable**
- C. BigQuery
- D. Cloud Spanner

44. Your currently looking to view your billing data and then export for easy viewing. What are the two ways you could export your bill in GCP? Select Two

- A. Bigtable
- B. BigQuery
- C. File Export
- D. HTML Export

45. You are currently managing compliance requirements and you have identified that you need to store data on GCP storage for more than 60 days. What type of GCP Storage would be the appropriate fit for this requirements?

- A. Nearline
- B. Coldline
- C. Regional
- D. Multi-Regional

46. You are currently working a fair number of relational databases. You would like to store this data on the GCP Cloud. What storage capability in GCP would be a good fit for relational databases such as SQL? Select One

- A. Cloud SQL
- B. BigTable
- C. Cloud Spanner
- D. Cloud NoSQL

47. What are the two types of organization roles available in GCP. Select Two

- A. Organization Admin
- B. Organization Leader
- C. Project Leader
- D. Project Creator

48. With \_\_\_\_\_ the GSuite Admin can automatically add, modify, and delete users, groups, and non employee contacts to synchronize the data in a GSuite domain with an LDAP directory server or MS Active Directory.

- A. GCDS
- B. LDAP
- C. AD
- D. DHCP

49. Your customer is currently looking into deploying GCP Containers and would like to know some of the features of GCP Containers. Select Two

- A. Supports Docker Format
- B. Autoscaling CPU
- C. Autoscaling Networking
- D. An Unmanaged service

50. Any data access mounted to a pod, called a \_\_\_\_\_, is available to all containers in the pod

- A. Partition
- B. Volume
- C. Container
- D. KuberCube

51. Your customer is developing an application on App Engine and is using Python. They would like to implement custom runtime images for the rollout of their development instances. What deployment do they need to subscribe to be able to use custom images.

(Select One)

- A. App Engine Flexible
- B. App Engine Standard
- C. App Engine Standard
- D. App Engine Custom

52. The Monitoring agent, \_\_\_\_\_, is based on the original collectd system statistics collection daemon.

Select One

- A. Stackdriver-agent
- B. Stackdriver-agent-collectd
- C. Stackdriver-collectd
- D. Stackdriver-statsd

53. When your monitoring in Stackdriver you have a choice of two default types of monitoring. What are the two types of defaults available? Select Two

- A. Custom
- B. Intelligent
- C. Dynamic
- D. Static

54. Cloud Endpoints can be implemented in which two languages?

- A. Java
- B. Python
- C. Go
- D. PHP

55. Cloud Endpoints generate data for the client in what format?

- A. Java
- B. JSON
- C. XML
- D. YAML

56. App Engine Services can share state by using what two services?

- A. Work Queues
- B. Memcache
- C. Task Queues
- D. Shared Instance Memory
- E. DataStore

57. An application named **demo** is not deployed on a custom domain. It has a service named **service-1**. What is the URL to access **service-1**?

- A. <https://service-1-dot-demo.appengine.com>
- B. <https://service-1-dot-demo.appspot.com>
- C. <https://service-1-dash-demo.appspot.com>
- D. <https://services-1-dot-demo.appspot.com>

58. When using a Google Cloud Platform API call with the simple API access Method what two options are valid?

- A. The API calls do not have access any private user data
- B. The API calls can access private user data
- C. Before access user must grant permission to application
- D. The application needs to authenticate itself for accounting purpose

58. Which of the following project permission levels maps to the role of admin in the Users API?

- A. Viewers
- B. Editors
- C. Owners
- D. Administrators
- E. All of the above

59. Which of the following statements relating to traffic splitting are true?

- A. Lets you distribute by percentage traffic across two or more versions of any service
- B. Is useful for A/B style testing
- C. Improves availability of an application
- D. Improves performance of an application by distributing load across multiple machines

60. To perform logging in an application, which library should you use?

- A. Use `java.util.logging` in Java and the standard logging service in Python
- B. Use the library provided by Google Cloud Platform
- C. You can use whichever library you wish for logging
- D. Use Cloudwatch libraries or Stackdriver libraries

61. Which of the following three statements reflect Google Cloud Storage?



- A. Is an immutable blob datastore
- B. Supports object versioning
- C. Is a mountable file system
- D. Buckets use a global namespace
- E. API are provided in three formats

62. Which of the following three statements reflect Google Cloud SQL?

- A. Supports vertical scaling
- B. Supports horizontal scaling for reads
- C. Supports horizontal scaling for writes
- D. Accessible from anywhere
- E. APIs are in Rest format only
- F. Access thru Kubernetes or App Engine only

63. Which of the following three statements reflect Google DataStore?

- A. Strong consistency is achieved using entity groups
- B. Supports horizontal scaling for reads
- C. Supports horizontal scaling for writes
- D. Entities stored can have different properties
- E. Each Entity has a kind that is used to categorize entities for querying
- F. Access thru Kubernetes or App Engine only

64. Which of the following three methods can be used to create datastore indexes?

- A. Strong consistency is achieved using entity groups
- B. Supports horizontal scaling for reads
- C. Supports horizontal scaling for writes
- D. Entities stored can have different properties
- E. Each Entity has a kind that is used to categorize entities for querying
- F. Access thru Kubernetes or App Engine only

65. Which of the following two methods can be used to create composite indexes in datastore?

- A. Run the queries on the development server
- B. Create or edit an index configuration file
- C. Run the WEB-INF/datastore-indexes.xml in Python
- D. Run the index.yaml in Java and edit the profile

66. Which of the following answers is correct with Cloud Datastore consistency use cases for this statement?

Use \_\_\_\_\_ consistency when latest data is not critical or no dependent operations, like a blog post

Use \_\_\_\_\_ consistency when it's vital to see latest updates, like price on a product in a catalog

- A. Eventual, Strong
- B. Strong, Eventual
- C. Gradual, Strong
- D. Declarative, Eventual

67. Which of the following are true for DataStore transactions?

- A. Within a transaction only ancestor queries can be executed
- B. Datastore transactions use pessimistic concurrency
- C. Datastore transactions use optimistic concurrency
- D. Entities stored can have different properties

68. Which of the following is the maximum size of a single cached data value in Memcache?

- A. 1MB
- B. 32MB

- C. No limits
- D. 16MB
- E. 16GB

69. Which of the following three statements are true for configuring basic scaling of instances in App Engine?

- A. You can configure a scaling class
- B. You can specify number of instances
- C. Supports manual scaling
- D. You can not specify the number of instances
- E. Does not support manual scaling

70. To process work generated in App Engine in code outside of App Engine, you would use which of the following?

- A. A pull Queue
- B. A push Queue
- C. Both a push and pull Queue
- D. Use a cron job
- E. Use a scheduled task

71. Your BigQuery data warehouse project includes a table with various array fields. You've been asked to flatten the arrays, preserving their order and all records. What should you do?

- A. Perform UNNEST to convert the array into rows, use WITH OFFSET to get additional column, and then ORDER BY their offset.
- B. PERFORM UNNEST and JOIN with the table.
- C. Perform FLATTEN and ORDER BY [array] commands
- D. PERFORM UNNEST and UNION with the table.

72. You've uploaded some static web assets to a public storage bucket for the developers. However, they're not able to see them in the browser due to what they called "CORS errors". What's the easiest way to resolve the errors for the developers?

- A. Use the `gsutil cors set` command to set the CORS configuration on the bucket.
- B. Advise the developers to adjust the CORS configuration inside their code.
- C. Use the `gsutil set cors` command to set the CORS configuration on the object.
- D. Use the `gsutil set cors` command to set the CORS configuration on the bucket.

73. Your team has been working on building a web application that will have a local audience. The plan is to deploy to Kubernetes. You currently have a Dockerfile that works locally. How can you get the application deployed to Kubernetes

- A. Use `kubect` to push the convert the Dockerfile into a deployment.
- B. Use `docker` to create a container image, save the image to Cloud Storage, deploy the uploaded image to Kubernetes with `kubect`.
- C. Use `docker` to create a container image, push it to the Google Container Registry, deploy the uploaded image to Kubernetes with `kubect`.
- D. Use `kubect` apply to push the Dockerfile to Kubernetes.

74. You've been asked to create a new Cloud Dataproc cluster that will work with the US-based Cloud Storage service to handle all the Internet of Things streaming data. It has to be set up to process as fast as possible. What should you make sure to do when creating the Cloud Dataproc cluster?

- A. Set the region to match the Cloud Storage region.
- B. Enable the Cloud Storage Migration service.
- C. Enable the Cloud Storage API
- D. Turn on Cloud Storage optimization
- E. Nothing is needed since Cloud Dataproc handles this with the wizard

75. Log information from your application is output to stdout while your app begins as a system service on your Compute Engine instance. Without changing the app, how do you get application logs to Stackdriver?

- A. Install Stackdriver Logging Agent. Review the application logs from the Compute Engine VM Instance syslog logs in Stackdriver
- B. Review the application logs from the Compute Engine VM Instance activity logs in Stackdriver.
- C. Delete the application logs from the Compute Engine VM Instance activity logs in Stackdriver.
- D. Install Stackdriver Logging Agent. Review the application logs from the Compute Engine VM Instance system event logs in Stackdriver

76. You're using Stackdriver to set up some alerts. You want to reuse your existing REST-based notification tools that your ops team has created. You want the setup to be as simple as possible to configure and maintain. Which notification option would be the best option?

- A. Send notifications via SMS and use a custom app to forward them to the REST API.
- B. Create a webhook to accomplish this
- C. Send it to an email account that is being polled by a custom process that can handle the notification.
- D. Send notifications via Cloud Pub/Sub and use a custom app to forward them to the REST API.

77. Your customers have asked you to set up a subnet with the largest IP address range possible. Which of the following ranges would work best?

- A. 10.0.0.0/8
- B. 10.0.0.0/12
- C. 10.0.0.0/16
- D. 10.0.0.0/32

78. You have a Cloud Storage bucket that needs to host static web assets. How do you make the contents of the bucket publicly viewable?

- A. Set allUsers to have the Storage Object Viewer role.
- B. No need, its GCP so all buckets are open to public by default
- C. Use gsutil make-public gs://bucket-name
- D. Use gsutil make-viewer gs://bucket-name

79. What are the benefits to using Cloud Dataflow templates? Select Two

- A. There is a wizard to enable ease of use
- B. Supports Apache Hadoop services with an onramp
- C. Customize execution with runtime parameters
- D. There is no need to recompile code before processing pipeline.

80. GCP has both ops and no-ops management requirements as compared to customizability with compute services. How would you rank the four services on a scale ranging from the fewest management requirements and lowest customizability to most management requirements and highest customizability?

- A. Cloud Functions, App Engine, Kubernetes Engine, Compute Engine
- B. Cloud Functions, Kubernetes Engine, App Engine Compute Engine
- C. Cloud Functions, Compute Engine, Kubernetes Engine, App Engine
- D. Cloud Functions, App Engine, Compute Engine, Kubernetes Engine

81. You are developing an application that will need to meet GDPR requirement for several facets of the regulations. You have been asked to store data on GCP as efficiently as possible. This data will need to be archived for at least 5 years. What would be the best option?

- A. Use Bigquery
- B. Use Cloud Storage Multi regional buckets
- C. Use Cloud Storage Coldline buckets
- D. Use Bigtable

82. Your developing an application that needs to use Google Analytics and need to enable tracking IDs. What file generally imports back-end and front-end functions and initiates the application?

- A. Config.js
- B. App.yaml
- C. Config.py
- D. App.yarn

83. Your developing an application that needs to use Google Translate. Your new project translates several languages on the go, and you've been asked to ensure that capability is available for other coders. How do you proceed?

- A. Enable Translate API.
- B. Install the Yaml file
- C. Enable Cloud Pub/Sub
- D. Install the files in the code repository

84. Your company uses a third-party monitoring solution for your enterprise apps. You are using Kubernetes Engine and would like to enable this monitoring app.

- A. Deploy the monitoring pod as a DaemonSet.
- B. Deploy the monitoring pod as a cluster
- C. Deploy the monitoring extension for Stackdriver Trace
- D. Deploy a solution from the Cloud Marketplace

85. What would be three ways for securing a key bit of data in a secret for your application?

- A. Store the secret in the configuration file with Deployment Manager.
- B. Store the secret in a hidden volume of a container.
- C. Store the secret in in the meta data of a VM
- D. Store the secret in your application code with a password
- E. Store the secret in the password.txt file with Deployment Manager