

## 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. You are 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
- C. Application Replication
- 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 Enpoints

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. You are 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. You can use \_\_\_\_\_ to build container images (such as Docker) from a variety of source code repositories, and \_\_\_\_\_ to store and serve your container images.

Select Two

- A. GCP App Engine
- B. GCP Container Builder
- C. GCP Container Registry
- D. GCP Kubernetes Engine

55. Stackdriver \_\_\_\_\_ provides latency sampling and reporting for Google App Engine, including per-URL statistics and latency distributions.

Select One

- A. Logging
- B. Trace
- C. Debugging
- D. Monitoring
- E. Analysis

56. You have just deployed your application on App Engine standard in the following region.

us-east4 (Northern Virginia)

What is the required process to change your App Engine instance from Northern Virginia to

eu-west-1 (Ireland)

Select the best answer.

- A. App Engine is a regional service so if you move it has to be in the same region
- B. App Engine is a global service so just run `http://[YOUR_PROJECT_ID].appspot.com`.

- C. App Engine is a regional service so just  
run `http://[YOUR_PROJECT_ID].appspot.com`.
- D. App Engine is a regional service so the region can't be changed after it's set

57. Logs are associated primarily with GCP \_\_\_\_\_, although \_\_\_\_\_ can also have logs. Select One

- A. Projects, Organizations
- B. Organizations, Projects
- C. Projects, Regions
- D. Organizations, Regions

58. For system metrics, Stackdriver creates a Deployment that periodically connects to each node and collects metrics about its Pods and containers, then sends the metrics to Stackdriver.

Metrics for usage of system resources are collected from the following sources: Select Three

- A. CPU
- B. Memory
- C. Disk
- D. Network
- E. Cache

59. 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. Horizontally
- B. Vertically
- C. Hybrid
- D. Vertical and Horizontally

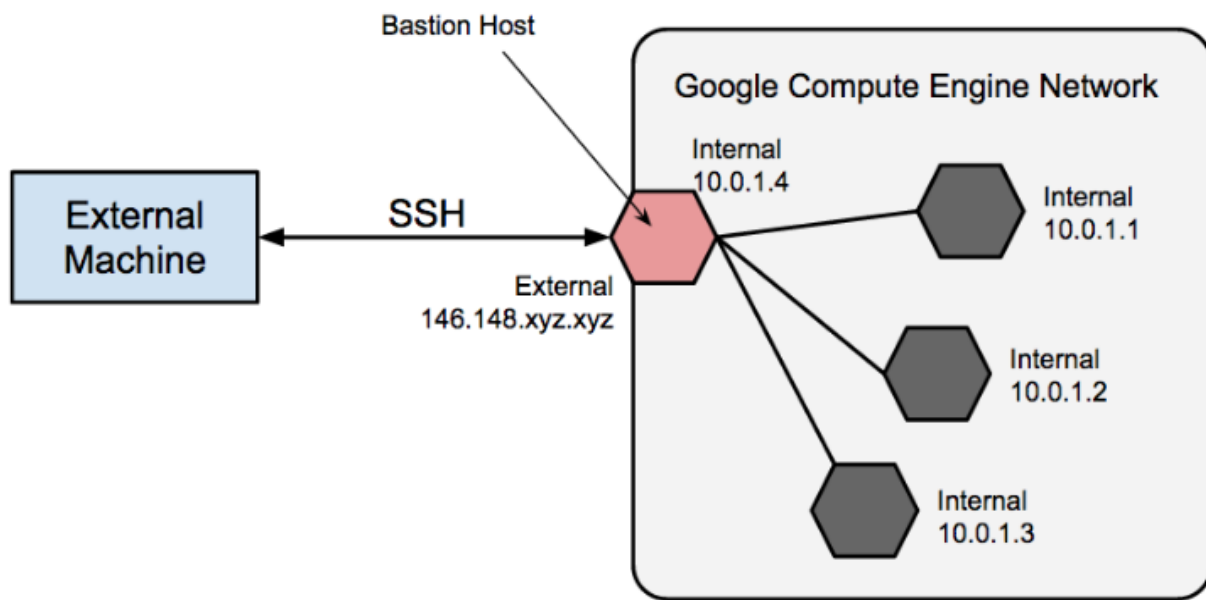
60. You are currently reviewing your project in GCP using gcloud. You would like to confirm what the DNS related info is for a project. What is the command to do this? Select One

- A. gcloud dns project-info describe
- B. gcloud dns project-info list
- C. gcloud dns project-info show
- D. gcloud dns project-info grep

Review here gcloud dns project-info describe

<https://cloud.google.com/sdk/gcloud/reference/dns/project-info/>

61. Reviewing the picture below why would you want a Bastion Host in this situation? Select One



- A. Provide an external facing point of entry into a network containing private network instances
- B. Provide an internal facing point of entry into a network containing private network instances
- C. Provide an external facing point of entry into a network containing dynamic network instances
- D. Provide an external facing point of egress from a network containing dynamic network instances

62. You would like to deploy a LAMP stack for your development team. The only issue is your not sure how to configure this. You would like to use a solution that has ready made templates to deploy.

What GCP service could you use?

- A. Cloud Launcher
- B. Cloud Formation
- C. Stackdriver

## D. Cloud Functions

63. You can add a subnet to a region of an existing VPC network and would like to optionally assign a secondary IP range to the subnet for use with Alias IP. Which two statements are TRUE about ALIAS IP?

Select Two

- A. You can configure multiple internal IP addresses
- B. You can assign VM alias IP ranges from either the subnet's primary or secondary ranges.
- C. You can assign VM alias IP ranges from either the subnet's primary range only
- D. You need to contact support to set up Alias IP

64. You have created several new storage buckets and folders. You would like to grant access which gives the user read, write, or delete access to that resource for a limited time. What would you recommend? Select One

- A. Create Signed URLs
- B. Install a Time based Certificate system
- C. Make the buckets public with a passkey
- D. Make the buckets private with a passkey
- E. Create an access control API

65. You want to list all active projects, where the active account has Owner, Editor or Viewer permissions. What is the proper syntax for this with gcloud?

Select One

- A. `gcloud config list project`
- B. `gcloud config lists project`

- C. `gcloud config list projects all`
- D. `gcloud config list projects *`

66. Which of the following commands lists a maximum of six projects sorted alphabetically by name? Select One

- A. `gcloud projects list --limit=6`
- B. `gcloud projects list sort --limit=6`
- C. `gcloud project list --limit=6`
- D. `gcloud project list sort --limit=6`

67. The following command reads an IAM policy defined in a JSON file `policy.json` and sets it for a project with the ID `secpolicy-id-1`

Select One

- A. `gcloud projects set-iam-policy secpolicy-id-1 policy.json`
- B. `gcloud project set-iam-policy secpolicy-id-1 policy.json`
- C. `gcloud projects set-iam-policy secpolicy-id-1 --policy.json`
- D. `gcloud project set-iam-policy secpolicy-id-1 policy.json`

68. You would like to create a new Compute Engine called `gcelab2` in zone `us-central-c`. What is the proper command

Select One

- A. `gcloud compute instances create gcelab2 --zone us-central1-c`
- B. `gcloud compute instances init gcelab2 --zone us-central1-c`
- C. `gcloud compute instance create gcelab2 --zone us-central1-c`
- D. `gcloud compute instance init gcelab2 --zone us-central1-c`

69. When using the SDK you want to ensure you set the current project. What would be the proper syntax? Select One

- A. `gcloud config set project projectname`
- B. `gcloud config init project projectname`
- C. `gcloud config set projects projectname`
- D. `gcloud config set projects --projectname`

70. You would like to obtain the current IAM Policy for a project called my-project test. What would be the correct syntax? Select One

- A. `gcloud projects get-iam-policy my-project-test`
- B. `gcloud projects obtain-iam-policy my-project-test`
- C. `gcloud projects init -iam-policy my-project-test`
- D. `gcloud projects get-iam-policy --my-project-test`

71. You are currently using a Kubernetes cluster and notice that 8 nodes are not performing well. You want to scale it to 10 nodes. What is the proper command? Select One

Note remember that Kubernetes is a Docker Container management platform!

- A. `gcloud container clusters resize "10"`
- B. `gcloud container clusters size "10"`
- C. `gcloud container clusters init "10"`
- D. `gcloud container cluster resize "10"`

72. Your working with a Kubernetes configuration. You need to display merged kubeconfig settings or a specified kubeconfig file. What is the proper command? Select One



- A. kubectl config view
- B. kubectl config view all
- C. kubectl view config
- D. kubectl config view file

73. You just rolled out a new Kubernetes deployment. After the rollout completes you want to view the deployment. What is the command to list the deployments? Select One

- A. kubectl get deployments
- B. kubectl get pods
- C. kubectl get deployment
- D. kubectl get configuration

74. You are currently configuring a Linux VM in Compute Engine instance and would like to install the Stackdriver MONITORING agent. What is the proper syntax?

Select One

- A. curl -sSO <https://dl.google.com/cloudagents/install-monitoring-agent.sh>
- B. install -sSO <https://dl.google.com/cloudagents/install-monitoring-agent.sh>
- C. curl -sSO <https://dl.google.com/cloudagents/install-logging-agent.sh>
- D. install -sSO <https://dl.google.com/cloudagents/install-logging-agent.sh>

75. You are currently configuring a Linux VM in Compute Engine instance and would like to install the Stackdriver LOGGING agent. What is the proper syntax? Select One

- A. curl -sSO <https://dl.google.com/cloudagents/install-monitoring-agent.sh>

B. install -sSO <https://dl.google.com/cloudagents/install-monitoring-agent.sh>

C. curl -sSO <https://dl.google.com/cloudagents/install-logging-agent.sh>

D. install -sSO <https://dl.google.com/cloudagents/install-logging-agent.sh>

Good Luck on the exam!

Remember to also use the GCP sponsored pool here. (These were part of the Beta Exam)

<https://cloud.google.com/certification/practice-exam/cloud-engineer>

