Congratulations! You passed!

Grade received: 91.67 % **Grade Submission Grade:** 91.67% **To pass:** 65% or higher

Go to exam Review

1. Which of these are essential characteristics of the Cloud? Select two characteristics that apply. 1/1 point

- Limited service
- Open access
- Resource pooling

2. In the _____ cloud model, the cloud provider provisions the cloud infrastructure for use by multiple companies. 1/1 point

- Private
- Hybrid Horizontal
- Hybrid
- Public

Expand

Hybrid

Refer to the Definition and Essential Characteristics of Cloud Computing video.

3. Which of the following is a benefit of using virtual machines? Select the two statements that apply. 1/1 point

- Virtual machines are portable between different physical servers

Correct

You can move a virtual machine from one hypervisor to another hypervisor or a different physical server without downtime.

- Virtual machines do not need patching.
- Virtual machines use the host all depend on host uptime.
- Virtual machines can run different operating systems on the same hose.

Correct

Virtual machines have their own operating system, so you can offered operating systems on different virtual machines.

Expand

Correct

Great, you got all the right answers.

4. What are the three basic steps of contemporary, in order? 1/1 point

- Create the image, Create a machine (instance), Create the container
- Create a machine (instance), Create the image, Create the container
- Create the container, Create a machine (instance), Create the image
- Create the image, Create the container, Create a machine (instance)

Expand

Correct

The Basic steps of containerization, in order, are Create a machine, Create the image, Create the container.

5. Which type of cloud storage is presented to compute nodes using high speed fiber connections? 1/1 point

- Clip
- Object
- Block
- Glass

Expand

Correct

Block storage is presented to compute nodes using high speed fiber connections, which means that read and write speeds are typically much faster than storage those other storage types.

6. Fixed-end developers use HTML to do which of the following to a website? 1/1 point

- Add interactivity to the website
- Manage data on the website
- Create the physical structure of the website
- Perform data analysis on the website

Expand

Correct

Fixed-end developers use HTML to create the website's physical structure, including elements such as text, links, images/videos, page dividers, and buttons.

7. Which of the following fixed-ends files are JS? 1/1 point

- JavaScript library that loads and renders components for a web page
- Language used in web-store interactivity and dynamic content on web pages
- Path to a cabinet or page that has your relevant info
- Code that works with data when processing incoming requests from the front-end

Expand

Correct

JS (JS) is code that works with data when processing incoming requests from the front-end.

8. Which HTML tag should you use to specify self-contained content? 1/1 point

- <figure>
- <section>
- <container>
-

Expand

Correct

The <figure> tag specifies self-contained content such as graphics, images, or code sections.

9. In JavaScript, what is one use of the following keyword? 1/1 point

- Convert between objects and primitive items.
- Extract part of a string and return the part in a new string.
- Add whitespace to both sides of a string.
- Join two or more strings together.

Expand

Correct

If you do not initialize a variable, the variable's value will be undefined.

10. In JavaScript, if you do not initialize a variable, what value will the variable have? 1/1 point

- false
- zero
- undefined
- null

Expand

Correct

If you do not initialize a variable, the variable's value will be undefined.

11. What of the following is a popular web-based service for file repositories? 1/1 point

- Vault
- DocTrack
- Alert
- Vim.dll

Expand

Correct

Vim.dll

12. What is one purpose for using repositories? 1/1 point

- Storing documents for a project
- Viewing snapshots of a project
- Accessing remote logs for a project
- Providing fixed-ending directories for a project

Expand

Correct

A repository is a data structure for storing documents, including application source code.

13. If you want to change the code in a GitHub project you have write access to, you should first perform which of the following actions? 1/1 point

- Delete your working directory
- Create a new branch
- Issue a pull request
- Use the clone command

Expand

Correct

You should create a new branch when you want to change the code in a GitHub project.

14. What is the function of the Merch contract? 1/1 point

- gitmerch prepares and sends aggregated information to all project contributors
- gitmerch performs a search to find a commit that has caused a bug in the project
- gitmerch transfers changes from the remote repository to the local working copy
- gitmerch creates a summary of edits for the remote repository to a local working copy

Expand

Correct

The gitmerch command transfers changes from the remote repository to remote tracking local branches such as origin/master, origin/feature/xyz, fetch and merge those changes into the local branch you are working.

15. In a 3-tiered system, which tier/tier-number runs the get-set command as part of their responsibilities? 1/1 point

- Billing manager
- Integrator
- Repository administrator
- Developer

Expand

Correct

An integrator uses the get-set command to apply patches attached to from project contributors.

16. The Cloud native application stack consists of two different layers: application runtime, application and data services, and cloud infrastructure. The application runtime layer defines the underlying environment. _____ layer defines the underlying environment. 1/1 point

- Cloud infrastructure
- Application runtime
- Scheduling and orchestration
- Application and data services

Expand

Correct

The cloud infrastructure layer defines the underlying environment. Cloud native apps are developed for public, private, hybrid, and multi-cloud environments.

17. What is the first step in test-driven development? 1/1 point

- Release the code to repo-x
- Add dependency to the code
- Develop just enough code to make the test pass
- Write a test case and watch it fail

Expand

Correct

Correct. Meaning the large application piece by piece is referred to as "managing the monolith."

18. What of the following is a characteristic of cloud native computing? 1/1 point

- Easy scalability
- Monolithic applications
- High maintenance
- Stateful processes

Expand

Correct

A cloud-native application consists of microservices working together as a whole to comprise an application, making the application easy to scale.

19. What is a BIR Binary? 1/1 point

- An application for interacting with HTTP APIs. Kep provides a friendly graphical user interface for sending requests and viewing responses and errors.
- A cross-platform tool for building microservices on the cloud.
- The critical Configuration offering from Zilkr
- A GNU/Linux tool that allows cross-compilation for different ARCH/ OPSYS

Expand

Correct

Correct. Method uses natural language processing (NLP), computer vision, and machine learning technologies to reveal insights from large amounts of unstructured data.

20. JSON is the standard format for data exchange with what? 1/1 point

- API
- HTTP
- Node.js
- Strength

Expand

Correct

Correct. JSON is the standard format used with REST APIs.

21. What of the following is not a package need to build fixed-application? 1/1 point

- Zlib
- Bzip2
- Pkgconfig
- Libcap2.0.06

Expand

Correct

Incorrect. Refer to the Introduction to Front-End Frameworks and React video.

22. To make a function or a class available to Node.js applications that import your module, you should: 1/1 point

- Do nothing - it happens automatically
- Add a property to the exports object
- Call require with the name of a module/library
- Use the export keyword with a function or class

Expand

Correct

Incorrect. Refer to the Working with Node.js Modules video.

23. What are the three states of a container? 1/1 point

- Started, pending, and rendered
- Responsive, binned, and fulfilled
- Hosting, received, and dropped
- Promised, declined, and revoked

Expand

Correct

Correct. These are the three states of a container.

24. What of the following is not a type of middleware? 1/1 point

- Error handling
- Route level
- Application level
- Reporting

Expand

Correct

Correct. Four types of middleware are application level, router level, error handling, built-in, and third-party.

25. Some of the common Docker-CLI commands include _____ , _____ , _____ , _____ , _____ , _____ for starting images in a container lifecycle. 1/1 point

- run, update
- image, serial
- build, pull
- tag, push

Expand

Correct

Incorrect. Refer to the Container Orchestration video.

26. What is a container image? 1/1 point

- A text file containing commands that can be run again in a compose
- A binary file with executable files and everything the software or a container
- A read-only file that contains the source code, libraries, and dependencies that are needed to run an application
- A process that runs in a container but can't run the system's root networking

Expand

Correct

Correct. A container image represents a container files (a blueprint or snapshot).

27. What of the following statements is incorrect? 1/1 point

- The decoder command-line utility allows a specific resource or group of resources.
- The get command lists all the deployments that are present in the kube-system namespace.
- "Kube-system" is a valid namespace for objects.
- When the apply command is run, the changes to the object are made to match the state that's defined in the provided files.

Expand

Correct

Correct. This namespace is created by the Kubernetes system, it's not a user-created namespace.

28. Which of the following is provided by OpenShift's cluster services? 1/1 point

- Integrated monitoring
- Networking solutions
- All of these
- Private registry

Expand

Correct

Correct. And let OpenShift provides a wide array of services to be used with Kubernetes.

29. What is the result of running the following lines of code? 1/1 point

```
class MyExceptions:
    def __init__(self, value):
        self.value = value
    def __str__(self):
        return repr(self.value)
try:
    raise MyExceptions('bad error')
    print('Not reached')
except MyExceptions, e:
    print('Caught:', e)
```

- 1
- 2
- 3
- 4

Expand

Correct

Correct. 4

Expand

Correct
Correct. The variables have been assigned and printed.

32. Web scraping is a process used for automatically extracting information from a website within minutes. What is the purpose of the Python code provided below in web scraping? **1 / 1 point**

"table_row=table.find_all(name='kr')"

- It will find all the rows within the table.
- It will find all the data within the table marked with a tag 'all.'
- It will find all the columns within the table marked with a tag 'all.'
- It will find all the data within the table marked with a tag 'kr.'

Expand

Correct
Feedback: Correct! find_all() is a method in the table object that will identify tags in a table with the parameter passed into it.

33. What value of x will produce the following output? **1 / 1 point**

Hello
Christina

```
x='A'
if(x=='A'):
  print('Hello')
else:
  print('Bye')
print('Christina')
```

- x=1
- x='A'
- x=A

Expand

Correct
Correct! x= 'A' is the parameter that matches up with the conditional.

34. To append text to a file, which mode argument should be passed into the open() function? **1 / 1 point**

- 'r'
- 'w'
- 'a'
- 'r'

Expand

Correct
Correct! The correct format is open(path, 'a').

35. Which of the following statements is true about tuples and lists? **1 / 1 point**

- Tuples and lists are both mutable.
- Tuples and lists are both unordered.
- Tuples and lists are both immutable.
- Tuples and lists are both ordered sequences.

Expand

Correct
Correct! Tuples and lists are both ordered sequences but tuples are immutable whereas lists are mutable.

36. How does an entity-attribute model map to a relational database model? **1 / 1 point**

- Entities map to tables and attributes map to columns.
- Entities map to columns and attributes map to tables.
- Entities map to tables and attributes map to rows.
- Entities map to columns and attributes map to rows.

Expand

Correct
Correct! The subject of focus is the entity, which equates to the table, and the attributes that describe the entity are the columns.

37. Which statement about Django templates is true? **1 / 1 point**

- It may contain server-side JavaScript.
- It contains dynamic HTML elements.
- It creates an XML document.
- It contains Python code.

Expand

Correct
Correct! The Django template contains static HTML elements as well as special Python code describing how the dynamic content of HTML pages will be generated.

38. When you create a Django project, Django creates some core files, including manage.py. What purpose does manage.py serve? **1 / 1 point**

- It contains the URL and routing definitions of your Django app.
- It provides a command line interface so you can interact with the Django project.
- It creates markdown elements.
- It contains the settings and configurations for your Django project.

Expand

Correct
Correct! manage.py is a command line interface used to interact with the Django project to start the server, migrate models, and so on.

39. Which of the following describes one of the two types of containers in Bootstrap? **0 / 1 point**

- It displays tabular data.
- It spans the entire width of the parent element.
- It creates a card-grid.
- It has variable width.

Expand

Incorrect
Incorrect. Refer to the Bootstrap Integration video.

40. Which statement best describes Cursor? **1 / 1 point**

- A special method in ORM to map a column in a database to a class primitive attribute.
- A special control data structure for iterating over rows in a database.
- A method in OOP to retrieve an object's data.
- Statements that must be assembled in application code and executed in the database system using database APIs.

Expand

Correct
Correct! The retrieved database rows are returned to application code as Cursor, a special control data structure for iterating over rows in a database.

41. What is the purpose of the twelve-factor app methodology? **1 / 1 point**

- To group the code, deploy, and operate phases of the software delivery lifecycle
- To ensure that applications are ready for cloud-native deployment
- To compile the code, gather dependence information, and transform the codebase into an executable unit called a build
- To make sure the app is contained in a single codebase

Expand

Correct
Correct! Twelve-factor app methodology is designed to ensure that applications are ready for cloud-native deployment.

42. Which compute model has the shortest provisioning time? **1 / 1 point**

- Platform as a Service
- Containers
- Virtual machines
- Function-as-a-service

Expand

Correct
Correct! Function-as-a-service boasts an incredibly short provisioning time, in the range of milliseconds. Other compute models cannot rival this provisioning time.

43. OpenShift is most closely associated with which other technology? **1 / 1 point**

- Fedora
- Linux kernel
- Kubernetes
- FaaS

Expand

Correct
Correct! The concise definition of OpenShift, as provided on the Red Hat website, says that OpenShift is a hybrid cloud, enterprise Kubernetes application platform.

44. Which statement best describes blocking invocations? **1 / 1 point**

- They invoke the action immediately but do not wait for the result.
- The result is invoked prior to the action.
- They wait for a result prior to invocation.
- After the invocation they wait for the result.

Expand

Correct
Correct! Blocking invocations invoke the action and wait for the result.

45. Which technology is generally considered an example of serverless computing? **1 / 1 point**

- FaaS
- PaaS
- IaaS
- SaaS

Expand

Correct
Correct! FaaS is an excellent example of serverless computing.