1.	In the model, services are centrally hosted and licensed on a subscription basis.	1 / 1 point
	O Infrastructure as a Service	
	Software as a Service	
	Computing as a Service	
	O Platform as a Service	
	∠ <sup>™</sup> Expand	
	Correct In the Software as a Service model, software and applications are centrally hosted and licensed on a subscription basis.	
2.	In the cloud model, the cloud provider provisions the cloud infrastructure for use by multiple companies.	1 / 1 point
	○ Hybrid	
	O Private	
	Hybrid monocloud	
	Public	

	∠ <sup>n</sup> Expand	
	Correct Public cloud is when you leverage cloud services over the open internet on hardware owned by the cloud provider, but its usage is shared by other companies.	
3.	Virtualization is the process of creating a software-based version of physical resources, made possible through the use of	1/1 point
	APIs     Load balancers	
	Hypervisors     Third-party plugins	
	∠ <sup>A</sup> Expand	
	Correct The hypervisor makes virtualization feasible. The hypervisor is a piece of software that runs above the physical server, and the hypervisor pulls the resources from the physical server and allocates them to your virtual environments.	
4.	A is an executable unit of software in which application code is packaged, along with its libraries and dependencies, in common ways so that it can be run anywhere—desktops, traditional IT, or the cloud.	1/1 point
	○ Instance	
	O Host	
	Container      Hypervisor	
	∠ <sup>∧</sup> Expand	
	✓ Correct A containers is an executable unit of software in which application code is packaged, along with its libraries and dependencies, in common ways so that it can be run anywhere—desktops, traditional IT, or the cloud.	
5.	Which type of cloud storage can be mounted on multiple servers at once?	0 / 1 point
	) File	

Front-end developers use CSS to do w	hich of the following to a website?	1/1 point
Create the physical structure of the	ne website	
Render the website's pages more	quickly and efficiently	
Style the website and make it mo	re appealing	
Add interactivity to the website		
∠ <sup>7</sup> Expand		
<ul> <li>Correct         Front-end developers use CSS to make the site more appealing.     </li> </ul>	o define, apply, and manage different sets of style characteristics to a website and to	
make the site more appearing.		
	o servers and backend services to process user events and display results on a website.	1/1 poin
	o servers and backend services to process user events and display results on a website.	1 / 1 poin
HTML uses to talk to	o servers and backend services to process user events and display results on a website.	1 / 1 point
HTML uses to talk to	o servers and backend services to process user events and display results on a website.	1/1 point
HTML uses to talk to  JavaScript functions  CSS	o servers and backend services to process user events and display results on a website.	1/1 poin
HTML uses to talk to  JavaScript functions  CSS  Events	o servers and backend services to process user events and display results on a website.	1/1 point
HTML uses to talk to  JavaScript functions  CSS  Events  APIs  **Expand**  Correct	o servers and backend services to process user events and display results on a website.	1/1 point

8. Which HTML tag should you use to specify self-contained content?	1/1 point
<pre></pre>	
∠ <sup>≯</sup> Expand	
✓ Correct The <figure> tag specifies self-contained content such as graphics, images, or code sections.</figure>	
<ul> <li>9. In JavaScript, what is one use of the toString method?</li> <li>Add whitespace to both sides of a string.</li> <li>Join two or more strings together.</li> <li>Extract part of a string and return this part in a new string.</li> <li>Convert between objects and primitive literals.</li> </ul>	1/1 point
<ul> <li>✓ Correct         Wrapper objects use special methods such as the valueOf and toString methods to convert between objects and primitive literals.     </li> </ul>	•
10. In JavaScript, assume you need to create a variable with global scope and whose value will never change. What is the first	0 / 1 point
step you must take to declare this variable?	. = • = = =
O Providing the var keyword	

11. Which of the following is a popular web-hosted service for Git repositories?	1/1 point
Subversion	
○ ClearCase	
O PTC Integrity	
BitBucket	
	- 1
∠ <sup>™</sup> Expand	
<ul> <li>✓ Correct</li> <li>One popular web-hosted service for Git repositories is BitBucket.</li> </ul>	
12. What is one purpose for using repositories?	1 / 1 point
Maintaining version-control for a project	
Providing local working directories for a project	
Using a web interface to create a project	
Staging changes before committing them to a project	
∠ <sup>7</sup> Expand	
Correct A repository can track and maintain version-control.	

3. Assume you are a developer on a GitHub project, and on your computer, you have a cloned copy of the GitHub repository. After editing several files in your local repository, what is the first step you must take to push your changes back to GitHub?	1/1 point
Oelete your working directory.	
Update the README file.	
Create a new master branch.	
Use the add command.	
∠ <sup>7</sup> Expand  ✓ Correct	
When ready to push your changes back to GitHub, you must first run the git-add command on the changed files. This command moves the files into a staging area.	
4. What is the function of the git-push command?	1/1 point
git-push applies a patch to files or to the remote repository.	
git-push applies a patch to files of to the remote repository.	
git-push shows previous edits made to the local repository.	
git-push shows previous edits made to the local repository.	
git-push shows previous edits made to the local repository. git-push moves or renames a file from the local repository.	
git-push shows previous edits made to the local repository. git-push moves or renames a file from the local repository. git-push transfers your local changes to the remote repository.	

15. In a Git team project, which team member uses the git-am command as part of their responsibilities?	1/1 point
O Developer	
Repository administrator	
○ Billing manager	
Integrator	
∠ <sup>¬</sup> Expand  ⊘ Correct	
An integrator uses the git-am command to apply patches emailed in from project contributors.	
16. The cloud native application stack consists of four different layers: application runtime; application and data services; scheduling and orchestration; and cloud infrastructure. The layer defines the underlying environment.	1/1 point
Application and data services	
Application runtime	
Cloud infrastructure	
Scheduling and orchestration	
∠ <sup>n</sup> Expand  (✓) Correct	
The cloud infrastructure layer defines the underlying environment. Cloud native apps are developed for public, private, hybrid, and multi-cloud environments.	
4	<b>)</b>

17. Which continuous delivery feature can you use to automate builds, unit tests, and deployment?	1/1 point
○ Git repository	
○ Web IDE	
Delivery pipeline	
○ Issue tracker	
<ul> <li>✓ Correct         A delivery pipeline is a feature of continuous delivery you can use to automate builds, unit tests, and deployment.     </li> </ul>	
18. The process of refactoring and breaking down large legacy applications into a collection of small, loosely coupled microservices that can be aligned to a feature or a business function is called what?	1/1 point
Ontainerization	
Operational optimization	
Strangling the monolith	
○ Lift and shift	
∠ <sup>™</sup> Expand	
Correct Correct. Moving the large application piece by piece is referred to as "strangling the monolith."	

19. Which of the following is a characteristic of cloud native computing?	1/1 point
<ul> <li>Stateful processes</li> <li>■ Easy scalability</li> <li>Monolithic applications</li> <li>High maintenance</li> </ul> ∠³ Expand ✓ Correct	
A cloud native application consists of microservices working together as a whole to comprise an application, making the application easy to scale.	
20. What is IBM Watson?  A public portal that contains documentation for different REST APIs\  The artificial intelligence offering from IBM.  An architecture style for building resources on the Web  An application for interacting with HTTP APIs that presents a friendly graphical user interface (GUI) for constructing requests and reading responses	1/1 point
∠ <sup>A</sup> Expand  ⊘ Correct	
Correct. Watson uses natural language processing (NLP), computer vision, and machine learning technologies to reveal insights from large amounts of unstructured data.	•
4	<b>)</b>

21. JSON is the standard format for API data exchange. What relationship does JSON have with Node.js?	1/1 point
Common data model folder	
Standard representation of native JavaScript objects	
○ JSON_SET	
Metadata file	
∠ <sup>N</sup> Expand	
<ul> <li>Correct         Correct. JSON represents objects that can be processed and routed by Node.js     </li> </ul>	
22. Which of the following is not a package used to build React applications?	0 / 1 point
○ JSX	

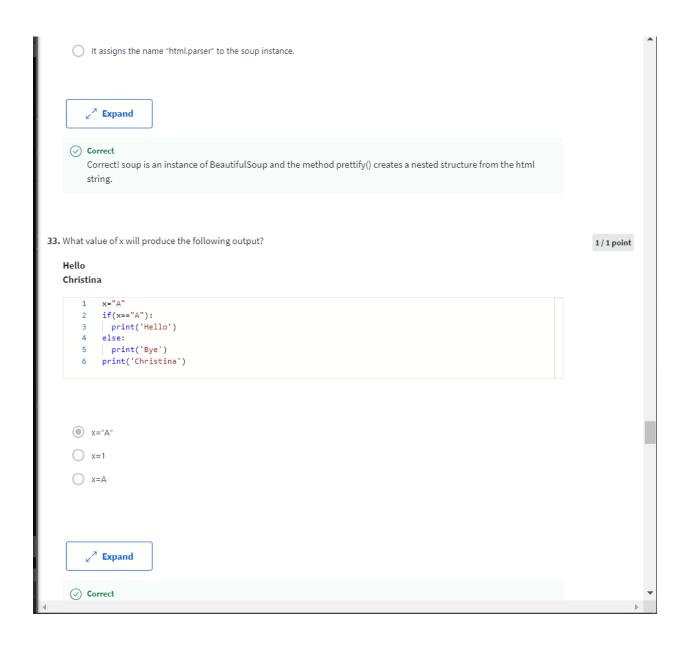
23. To make a function or a value available to Node.js applications that import your module, you should:	1/1 point
<ul> <li>Do nothing – it happens automatically</li> <li>Use the require function with a relative path to the script file</li> <li>Add a property to the implicit exports object</li> <li>Call require with the name of a subdirectory</li> </ul>	
∠ <sup>2</sup> Expand	
<ul> <li>Correct</li> <li>Correct. You should add a property to exports to make a function or a value available to Node.js applications.</li> </ul>	
24. The initial state of a promise object is	1/1 point
Blocked	
Rejected	
Pending	
Resolved	
∠ <sup>™</sup> Expand	
, -,	

25. What purpose does a router serve?	1/1 point 🔺
Determines what is done after a function is executed  Assists the server in handling queries  Determines the order in which middleware is chained  Handles errors	1/1 point
Expand Compared to the control of th	
<ul> <li>Correct</li> <li>Correct. A router is used for branching query handling and routing each query differently.</li> </ul>	
26. Some of the common Docker CLI commands include to create a new image and for testing	1/1 point
developed images.	
run, build	
image, build	
opush, pull	
build, run	
∠ <sup>7</sup> Expand	
<ul> <li>Correct</li> <li>Correct. These are the correct commands for the listed operations.</li> </ul>	
	•

27. Which of these is not a function of container orchestration?	1/1 point
Ensures that containers are redundant and available so that applications experience minimal downtime	
<ul> <li>Performs health checks to ensure that applications are running and takes necessary actions when checks fail</li> </ul>	
Limits organization to one unified container	
Scales containers up and down to meet demand and load-balances requests across instances	
∠ <sup>n</sup> Expand	
<ul> <li>Correct</li> <li>Correct. Container orchestration enables an organization to gain the benefits of using multiple containers.</li> </ul>	
28. Which of the following is not true of a container image?	1 / 1 point
20 miles of the locationing is not trace of a container image.	1/1 point
It is built by using a Dockerfile	
It is the same as a container	
It is read-only	
A container is a running image	
∠ <sup>7</sup> Expand	
<ul> <li>Correct</li> <li>Correct. A container image represents a container like a blueprint or snapshot.</li> </ul>	•
	<b>&gt;</b>

29. Which of the following statements is incorrect?	1/1 point	•
<ul> <li>The get command lists all the deployments that are present in the kube-system namespace.</li> <li>"Kube-system" is a user-created namespace for objects</li> <li>When the apply command is run, the state of the targeted Kubernetes cluster is made to match the</li> </ul>		
state that's defined in the provided files.  The describe command shows details about a specific resource or group of resources.		
∠ <sup>A</sup> Expand		
Correct Correct. This namespace is created by the Kubernetes system; it's not a user-created namespace.		
<b>30.</b> Which of the following is provided by OpenShift's cluster services?	1 / 1 point	ı
Private registry     Integrated monitoring		Ī
All of these		
Networking solutions  Z Expand		
Correct Correct. Red Hat OpenShift provides a wide array of services to be used with Kubernetes.		

<pre>1 class Points(object): 2</pre>	
<ul><li> a=X</li><li> ■ a=X b=Y</li></ul>	
∠ Expand	
<ul> <li>Correct</li> <li>Correct. The variables have been assigned and printed.</li> </ul>	
32. What does the following code do to an HTML string that is saved in a variable named "html" and uses the Python library  "BeautifulSoup?"	int
soup = BeautifulSoup(html, "html.parser") print(soup.prettify())	
It prints out the BeautifulSoup object as a nested data structure.	
It assigns the name "html" to the soup instance.	

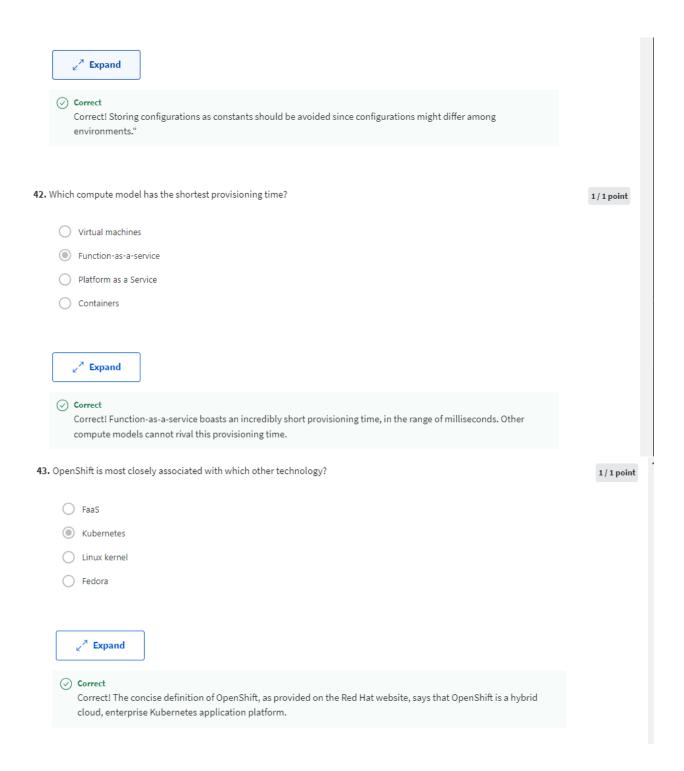


34. When using the open() function, what is the purpose of passing the parameter 'a+' into it?	1/1 point
Writing and reading. Truncates the file.	
Appending and reading. Creates a new file if none exists.	
Reading and writing. Cannot truncate the file.	
Opening and reading. Creates a new file if none exists.	
∠ <sup>™</sup> Expand	
♥ Correct     Correct. Rather than passing 'a' only, 'a+' both appends and reads.	
35. Which of the following statements is true about tuples and lists?	1/1 point
Tuples and lists are both immutable.	
Tuples and lists are both mutable.	
Tuples and lists are both ordered sequences.	
Tuples and lists are both unordered.	
∠ <sup>¬</sup> Expand  ⊘ Correct	
Correct! Tuples and lists are both ordered sequences but tuples are immutable whereas lists are mutable.	

36. In a library entity-relationship data model, a book is an example of and the book's title, edition, and publication date are examples of	1/1 point
an entity; attributes	
an attribute; entities	
a row; columns	
an entity; properties	
<ul> <li>✓ Correct         Feedback: Correct! An entity is the subject of focus and its attributes describe the entity.     </li> </ul>	
37. What is the purpose of using a Django template?  It can easily be mapped to a relational database.	1 / 1 point
It converts static HTML to dynamic HTML.  When combined with Django views, it presents data as a dynamic HTML page.	
It is an alternative to the entity-relationship model for rendering data.	
and an animalize to the entity relationship model for relatining data.	
∠ <sup>∧</sup> Expand	
Correct Correct! "Django uses a template to generate dynamic Web pages that are sent back and rendered in a user's browser."	•
4	<b>)</b>

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 creates markdown elements.  It contains the settings and configurations for your Django project.  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.	
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.	
<b>39.</b> Which of the following describes one of the two types of containers in Bootstrap?	1/1 point
It creates a card-grid.  It displays tabular data.  It spans the entire width of the parent element.  It has variable width.	
<ul> <li>✓ Correct</li> <li>Correct! One of the two types of containers is container-fluid, which spans the entire width of the parent element.</li> </ul>	
←	<b>▼</b>

40. Which statement is true regarding object-relational mapping?	1/1 point
<ul> <li>A change in the database only require changes to the data access logic but not to the application logic.</li> <li>ORM bridges the gap between OOP and SQL.</li> <li>ORM usually makes debugging simpler than SQL.</li> <li>ORM utilizes lookup tables to access data.</li> </ul>	
<ul> <li>✓ Correct         Correct! Developers can use just one programming paradigm development.     </li> </ul>	
41. In accordance with the twelve-factor app methodology, why should developers avoid storing configuration as constants in their code?	1/1 point
Because configurations might differ among environments	
<ul> <li>Because configuration environment variables are difficult to change across deploys without changing the code</li> </ul>	
Because a twelve-factor app should not distinguish between local and third-party services	
Because databases are likely the same in the various environments used for staging and production	



44. Which statement best describes blocking invocations?

After the invocation they wait for the result.	
<b>45.</b> Which statement is true about object storage?	1/1 point
It is used when fast, efficient, and reliable data transportation is required.	
Objects are self-contained repositories.	
It makes use of relational databases for storage.	
Oata stored in object storage is hierarchical.	
∠ <sup>™</sup> Expand	
Correct Correct! An object is a self-contained repository that contains the data, metadata, and a unique identifier that	
applications use to access the object.	
	_