Question - 1

SCORE: **5 points**

Cloud Computing Benefits

Cloud Computing | Easy

Cloud computing can:

- ( ) Offer ease of deployment and maintenance
- ( ) Improve agility and time-to-value
- ( ) Scale more easily and cost-effectively
- (•) All of the above

Question - 2

SCORE: **5 points**

Types of Cloud Offering

Cloud Computing | Easy

I want to deploy the Linux OS on which to run my applications, but I want the HW to be managed by a cloud provider. What Cloud offering is best suited for my use case?

- ( ) IaaS
- (•) PaaS
- ( ) SaaS
- ( ) Private Cloud

Question - 3

SCORE: **5 points**

Types of Cloud Deployment

Cloud Computing | Easy

I want to be the only customer using compute, storage and networking resources without having to deploy and maintain these resources. What type of a deployment is best suited for my needs?

- ( ) Public
- ( ) Hybrid
- (•) Private
- ( ) On-Prem

Question - 4

SCORE: **5 points**

Cloud Native Development

Cloud Computing | Easy

Which of the following is NOT a characteristic of cloud native development?

- (●) Cloud native development means build apps for specific platform
- ( ) Cloud native applications help you build for continuous innovation
- ( )

A cloud native application consists of discrete, reusable components known as microservices that are designed to integrate into any cloud environment.

- ( ) Cloud native applications often have quite specific functions

Question - 5

SCORE: **5 points**

Microservice

Cloud Computing | Easy

A micro-service is

- ( ) A scaled down and lower cost version of a full service
- ( ) An application that allows you to order services
- (●) A building block that is part of an application
- ( ) Can only run in hybrid cloud

Question - 6

SCORE: **5 points**

Cloud Orchestration Tools

Cloud Computing | Easy

A cloud orchestration tool

- ( ) Allows users to develop musically themed applications
- (●) Allows users to deploy cloud applications in a simple, repeatable manner
- ( ) Will only work if the app being deployed has an user interface

- [ ] All of the above

Question - 7

SCORE: **5 points**

Containers

Cloud Computing | Medium

Containers have the following properties:

- [x] Can be deployed within a kubernetes cluster
- [ ] Can consist of micro-services, Cannot share OS with other containers on the node, Is portable across platforms, Cannot be scaled
- [x] Can consist of micro-services, Can share OS with other containers on the node, Is portable across platforms, Can be scaled
- [ ] Same as Virtual Machines, Can share OS with other containers on the node, Is not portable across platforms, Can be scaled

Question - 8

SCORE: **5 points**

Inftrastructure-as-code tools

Cloud Computing | Easy

Which of the following tools allows me to simplify the deployment of my infrastructure resources in the cloud.

- [x] Terraform
- [ ] Docker Swarm
- [ ] Kubernetes Control Plane
- [ ] None of the Above

Question - 9

SCORE: **5 points**

APIs

API | Medium

I am running a to-do list application as a container in IBM Cloud. The application allows users to add or remove items from their to-do list. What must I expose to my users so that they can use the application. Select all that apply.

- [ ] A container
- [x] An endpoint
- [x] An API
- [ ] Watson

Question - 10

SCORE: **5 points**

Kubernetes Cluster

kuberenetes Easy

Which of the following are components in a kubernetes cluster? Select all that apply.

- [x] Container Runtime
- [ ] REST API
- [x] Pods
- [x] Control Plane

Question - 11

SCORE: **5 points**

Cluster Scaling

kuberenetes Easy

I have a deployed a kubernetes cluster using the deployment .yaml shown below. I want to scale up and create more pods to run my application. Which parameter in the deployment file should I change?

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
spec:
  selector:
    matchLabels:
      app: nginx
  replicas: 2 # tells deployment to run 2 pods matching the template
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: nginx:1.14.2
        ports:
        - containerPort: 80
```

- [ ] kind
- [ ] containers
- [x] replicas
- [ ] none

Question - 12

SCORE: **5 points**

Kubernetes deployment

kuberenetes

I have a deployment .yaml file called example-deployment.yaml. I want to realize this deployment on my cluster. Why command would I run to deploy this .yaml?

- [ ] 'kubectl deploy -f example-deployment.yaml '

- [x] ‘kubectl apply -f example-deployment.yaml ’
- [ ] ‘kubectl install -f example-deployment.yaml ’
- [ ] ‘kubectl manage -f example-deployment.yaml ’