



## Cloud Computing

### Assignment-Week 8

#### TYPE OF QUESTION: MCQ/MSQ

Number of questions: 10

Total mark: 10 X 1 = 10

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#### **QUESTION 1:**

Which of the following statements is/are true about Docker ?

Statement 1: Docker hub is used for building docker images and creating docker containers.

Statement 2: Docker compose is a registry used to host various docker images.

- a. Statement 1 is correct but Statement 2 is incorrect
- b. Statement 2 is correct but Statement 1 is incorrect
- c. Both the statements are correct
- d. Both the statements are incorrect.

**Correct Answer: d**

**Detailed Solution:** Docker Engine is used for building docker images and creating docker containers. Docker Hub is a registry used to host various docker images.

So, the correct option is (d).

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#### **QUESTION 2:**

Virtual machines take up less space than Containers.

- a. True
- b. False

**Correct Answer: b**

**Detailed Solution:** Containers take up less space than VMs and start almost instantly.

So, the correct option is (b).

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**QUESTION 3:**

Which of the following statements is/are correct? Choose the most appropriate option.

Statement 1: An image is a light weight, stand alone, executable package that includes everything to run a piece of software.

Statement 2: Container is a run time instance of an image.

- a. Statement 1 is correct but Statement 2 is incorrect
- b. Statement 2 is correct but Statement 1 is incorrect
- c. Both the statements are correct
- d. Both the statements are incorrect.

**Correct Answer: c**

**Detailed Solution:** Both the statements are correct.

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**QUESTION 4:**

In IoT based vehicular data clouds, vehicles providing their networking and data processing capabilities to other vehicles through the cloud is best identified with which of the following services?

- a. SaaS
- b. PaaS
- c. IaaS
- d. BaaS

**Correct Answer: c**

**Detailed Solution:** This comes under a new service named Network and Data processing as a service i.e. IaaS. So, the correct option is (c).

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**QUESTION 5:**

Each container can not run as an isolated process in user space.

- a. True
- b. False

**Correct Answer: b**

**Detailed Solution:** Each container can run as an isolated process in user space. So, the correct option is (b).

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**QUESTION 6:**

Containers can share the OS kernel with other containers.

- a. True
- b. False

**Correct Answer: a**

**Detailed Solution:** Containers are an abstraction at the app layer that packages code and dependencies together. Multiple containers can run on the same machine and share the OS kernel with other containers, each running as isolated processes in user space.

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**QUESTION 7:**

For sensor resources that do not have direct connection to the cloud, sensor network proxy provides the connection.

- a) True
- b) False

**Correct Answer: a**

**Detailed Solution:** For sensor resources that do not have direct connection to the cloud, sensor network proxy provides the connection. So, the correct option is (a).

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**QUESTION 8:**

An IoT platform has following basic building blocks

- (a) Things
- (b) Gateway
- (c) Network and Cloud
- (d) Learning Module

**Correct Answer: a, b, c**

**Detailed Solution:** An IoT platform has basically three building blocks: Things, Gateway, Network and Cloud.

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**QUESTION 9:**

In the context of Green Cloud Computing, the Power Usage Effectiveness is defined as

- a. Power Delivered / Overall Power
- b. Overall Power / Power Delivered
- c. Overall Power \* Power Delivered
- d. None of these

**Correct Answer: b**

**Detailed Solution:** In the context of Green Cloud Computing, the Power Usage Effectiveness is defined as Overall Power / Power Delivered. So, the correct option is (b).

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**QUESTION 10:**

A green broker can perform scheduling of applications to reduce energy consumption.

- a. True
- b. False

**Correct Answer: a**

**Detailed Solution:** A green broker can perform scheduling of applications to reduce energy consumption. So, the correct option is (a).

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