Cloud Computing

Assignment- Week 8

TYPE OF QUESTION: MSQ

Number of questions: **10**   **Total mark: 10 X 1 = 10**

QUESTION 1:

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).

QUESTION 2:

_____ reduce the overhead of resource management by using light-weight virtualization.

    a) Containers

    b) Virtual machines

    c) Both a and b

    d) Neither a nor b

Correct Answer: a

Detailed Solution: Containers reduce the overhead of resource management by using light-weight virtualization.

QUESTION 3:

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).

QUESTION 4:

--- runs completely isolated from the host environment by default, only accessing host files and

ports if configured to do so.

- a) Image
- b) Container
- c) Compose
- d) None of these

Correct Answer: b

Detailed Solution: Container runs completely isolated from the host environment by default, only accessing host files and ports if configured to do so. So, the correct option is (b).

QUESTION 5:

Docker engine is a tool for defining and running multi-container Docker

applications.

- a) True
- b) False

Correct Answer: b

Detailed Solution: Docker compose is a tool for defining and running multi-container

Docker applications. So, the correct option is (b).

QUESTION 6:

Which of the following procedure helps to reduce data center cooling cost in an energy

efficient way?

- a) Build servers that run at lower temperatures
- b) Build servers that run at higher temperatures
- c) Deploy fewer VMs
- d) Deploy more VMs

Correct Answer: a

Detailed Solution: Building servers that run at lower temperatures can help to reduce data center cooling cost in an energy efficient way.

QUESTION 7:

Which of the following statements are True?

a) Virtual sensor is an emulation of a physical sensor that obtains its data from underlying physical sensors

b) Virtual sensors act as an image in the software of the corresponding physical sensors

c) Physical sensors contain metadata about the virtual sensors and the user currently holding that physical sensor

d) Physical sensors provide a customized view to users using distribution and location transparency

Correct Answer: a, b

Detailed Solution: Virtual sensor is an emulation of a physical sensor that obtains its data from underlying physical sensors. Virtual sensors act as an image in the software of the corresponding physical sensors.

QUESTION 8:
--- get virtual access to host resources through a hypervisor.
   a) Containers
   b) Virtual machines
   c) Both a and b
   d) Images

Correct Answer: b
Detailed Solution: Virtual machines get virtual access to host resources through a hypervisor. So, the correct option is (b).

QUESTION 9:
In the context of Green Cloud Computing, the DC Server Energy Model is contributed by
   a) CPU
   b) Memory modules
   c) Disks
   d) None of these

Correct Answer: a, b, c
Detailed Solution: In the context of Green Cloud Computing, the DC Server Energy Model is contributed by CPU, memory modules and disks.

QUESTION 10:
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).

***********END**********