True/False

The computing continuum refers to the idea that computing devices exist on a spectrum, from small, low-power devices to large, high-performance machines.

True

The need for a constant Internet connection is one of the advantages of data centers

False

An Edge Computing system provide higher performance (in terms of memory and computation) than Internet-of-Things devices

True

A system virtual machine provides a complete system environment that can support an operating system (potentially with many user processes)

True

Data centers are well suited for real-time decisions in autonomous car context

False

Edge computing can improve the performance and reduce the latency of applications by reducing the distance data has to travel

True

The Internet of Things (IoT) layer is part of the computing continuum

True

Edge computing is not a suitable alternative to cloud computing for applications that require large-scale data processing

True

Edge computing can help reduce the amount of data that needs to be transferred to the cloud or central data center

True

Containers provide virtualization at the operating system level

True

Multiple choice

Which aspect is a drawback of data center computing platform?

A Power consumption

B Device independence

C Universal access

D Unlimited storage capacity

What are the benefits of data center virtualization?

A All of the other answers listed are correct.

B Consolidation and ease of manageability.

C Cost savings in power and cooling of the data center.

D Flexibility and agility

What is a Data Center?

A None of the others

B A building or portion of a building whose primary function is to research new data.

C A building or a portion of a building whose primary function is to house a computer room and its related support areas.

D A room in a building dedicated to monitoring data and information.

What is a computing infrastructure?

A Technological infrastructure that provides hardware and software for computation to other systems and services

B A Technological infrastructure that provides applications to other systems and services