



Cloud Computing

Assignment-Week 12

TYPE OF QUESTION: MCQ/MSQ

Number of questions: 10

Total mark: 10 X 1 = 10

QUESTION 1:

According to the given definition, which of the following statement(s) is (are) true about dew computing?

- a. Dew computing is a cloud computing paradigm where all computing is done on the cloud without any reliance on on-premises computers.
- b. Dew computing is a paradigm where on-premises computers provide functionality that is dependent on cloud services.
- c. Dew computing is a paradigm where on-premises computers and cloud services are completely isolated from each other and do not collaborate in any way.
- d. Dew computing is a paradigm where on-premises computers provide functionality that is independent of cloud services and is also collaborative with cloud services.

Answer: d

Detailed Solution: According to the definition given, dew computing is a paradigm where on-premises computers provide functionality that is independent of cloud services and is also collaborative with cloud services.

QUESTION 2:

What are the different aspects of CPS?

- a. Cyber, physical, and communication only
- b. Cyber, dynamics, and safety only
- c. Cyber, physical, computation, dynamics, communication, security, and safety
- d. Cyber, physical, and computation only

Answer: c

Detailed Solution: Refer slide 6 of Module 12: Cloud Computing Paradigms; Lecture 57.

QUESTION 3:

What is the benefit of 5G's ability to scale down in data rates, power, and mobility for IoT devices?



- a. It allows for faster data rates and lower latency
- b. It provides extremely lean and low-cost connectivity solutions
- c. It enables immersive experiences like VR and AR
- d. It provides ultra-reliable, low-latency links for mission-critical communications.

Answer: c

Detailed Solution: 5G is meant to seamlessly connect a massive number of embedded sensors in virtually everything through the ability to scale down in data rates, power, and mobility—providing extremely lean and low-cost connectivity solutions

QUESTION 4:

Fog-Edge computing leads to increased network congestion

- a. True
- b. False

Correct Answer: b

Detailed Solution: Fog-Edge computing leads to less network congestion

QUESTION 5:

What is(are) the key feature(s) of Mobile Cloud computing for 5G networks?

- a. Sharing resources for mobile applications
- b. Improved reliability due to data storage in the cloud
- c. Increased resource consumption by mobile applications
- d. None of these

Correct Answer: a and b

Detailed Solution: Key features of MCC for 5G networks include sharing resources for mobile applications and improved reliability as data is backed up and stored in the cloud.

QUESTION 6:

Mobility Analytics utilizes the cloud platform for computation and storage.

- A) True
- B) False

Correct Answer: A



Detailed Solution: Mobility Analytics utilizes a Cloud platform for computation and storage.

QUESTION 7:

In which computing environment is latency fixed due to the location of application modules at the Area Gateway?

- a. Fog computing
- b. Cloud computing
- c. Serverless Computing
- d. None of the above

Correct Answer: a

Detailed Solution: In fog computing environment is latency fixed due to the location of application modules at the Area Gateway

QUESTION 8:

Resource-constrained low-latency devices drive the need of

- a. Heterogeneous and distributed computing architectures
- b. Homogeneous and distributed computing architectures
- c. Heterogeneous and parallel computing architectures
- d. Homogeneous and parallel computing architectures

Correct Option: a

Detailed Solution: On-premises and edge data centers will continue to close the gap between resource-constrained low-latency devices and distant cloud data centers, leading to driving the need for heterogeneous and distributed computing architectures.

QUESTION 9:

Customized wearable devices for collecting health parameters are the best examples of

- a. IoHT
- b. Fog device
- c. Fog-Cloud interfaced.
- d. Cloud-Fog-Edge-IoHT

Correct Answer: d

Detailed Solution: Customized wearable devices for collecting health parameters are the best examples of Cloud-Fog-Edge-IoHT.



QUESTION 10:

The cyber-physical system involves transdisciplinary approaches, merging the theory of cybernetics, mechatronics, design, and process science.

- a. True
- b. False

Correct Answer: a

Detailed Solution: The cyber-physical system involves transdisciplinary approaches, merging the theory of cybernetics, mechatronics, design, and process science.

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