

Week 12 : Assignment 12

Your last recorded submission was on 2024-10-12, 22:47 IST

Due date: 2024-10-16, 23:59 IST.

- 1) According to the given definition, which of the following statement(s) is (are) true about dew computing? 1 point
- ☐ 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.
- 2) What are the different aspects of CPS? 1 point
- ☐ 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
- 3) What is the benefit of 5G's ability to scale down in data rates, power, and mobility for IoT devices? 1 point
- ☐ 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.
- 4) Fog-Edge computing leads to increased network congestion 1 point
- ☐ a. True
 - ☒ b. False
- 5) What is(are) the key feature(s) of Mobile Cloud computing for 5G networks? 1 point
- ☒ 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

☐ d. None of these

6) Mobility Analytics utilizes the cloud platform for computation and storage.

1 point

- ☒ A) True
☐ B) False

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

1 point

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

8) Resource-constrained low-latency devices drive the need of

1 point

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

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

1 point

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

10) The cyber-physical system involves transdisciplinary approaches, merging the theory of cybernetics, mechatronics, design, and process science. 1 point

- ☒ a. True
☐ b. False

You may submit any number of times before the due date. The final submission will be considered for grading.

Submit Answers