NPTEL Online Certification Courses

Indian Institute of Technology Kharagpur

Cloud Computing

Assignment-Week 12

TYPE OF QUESTION: MCQ/MSQ

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

QUESTION 1:

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

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QUESTION 2:

What does spatial cloud support in terms of resource pooling?

A) Individual resource allocation for participating organizations
B) Exclusive resource ownership for each organization
C) Shared resource pooling for participating organizations
D) Restricted access to network, servers, apps, services, storages, and databases

Correct Answer: C

Detailed Solution: Spatial cloud supports shared resource pooling which is useful for participating organizations with common or shared goals

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QUESTION 3:

Dew computing is an on premises computer software-hardware organization paradigm where on-premises computers provide functionality that is _____ of cloud services and is also _____ with cloud services.

A) independent, serverless
B) dependant, collaborative
C) independent, collaborative
D) serverless, collaborative

Correct Answer: C

Detailed Solution: Dew computing is an on premises computer software-hardware organization paradigm where on-premises computers provide functionality that is independent of cloud services and is also collaborative with cloud services.

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

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QUESTION 5:

A Cyber-Physical Cloud Computing (CPCC) architectural framework is a _____environment that can rapidly build, modify and provision cyber-physical systems composed of a set of_____ based sensor, processing, control, and data services.

A) system, cloud computing
B) cloud computing, system
C) system, edge computing
D) edge, system computing

Correct Answer: A

Detailed Solution: A Cyber-Physical Cloud Computing (CPCC) architectural framework can be defined as “a system environment that can rapidly build, modify and provision cyber-physical systems composed of a set of cloud computing based sensor, processing, control, and data services.”

QUESTION 6:

What is(are) the key feature(s) of Mobile Cloud computing for 5G networks?
A) Increased resource consumption by mobile applications
B) Improved reliability due to data storage in the cloud
C) Sharing resources for mobile applications
D) None of these

Correct Answer: B and C

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 7:

The key aspect of the intelligent transportation system is efficient _____.

A) cost
B) mobility
C) speed
D) delivery

Correct Answer: B

Detailed Solution: The key aspect of the intelligent transportation system is efficient mobility.

QUESTION 8:

In conjunction with 5G and cloud computing, what should service providers focus on in the evolving computing paradigm?

A) Limiting end-to-end orchestration
B) Providing manual service layer agreements
C) Offering limited self-service options
D) Providing full end-to-end orchestration with defined service layer agreements

Correct Answer: D

Detailed Solution: In evolving cloud computing paradigm with 5G, service providers should look to provide full end-to-end orchestration, with a defined service layer agreements, in a self-service and automated way.

QUESTION 9:

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 10:

What is(are) the benefit(s) of 5G technology for enhanced mobile broadband?

A) Slower data rates
B) Higher latency
C) Lower cost-per-bit
D) Limited device compatibility

Correct Answer: C

Detailed Solution: In addition to making our smartphones better, 5G mobile technology can usher in new immersive experiences such as VR and AR with faster, more uniform data rates, lower latency, and lower cost per bit.