Introduction to
Internet of Things
Assignment-Week 8

TYPE OF QUESTION: MCQ/MSQ

Number of questions: **15**   **Total marks: 15 X 1= 15**

QUESTION 1:

Traditional Wireless Mobile Networks are cost expensive in terms of _____?

        a. Only CAPEX

        b. Only OPEX

        c. Both CAPEX and OPEX

        d. Neither CAPEX and OPEX

Correct Answer: c. Both CAPEX and OPEX

Detailed Solution: Traditional wireless mobile networks are cost expensive both with respect to capital expenditure (CAPEX) and Operational Expenditure (OPEX). Refer Lecture 36@2:45

QUESTION 2:

High mobility of users is one of the key challenges in rule placement for software defined wireless mobile networks.

        a. True

        b. False

Correct Answer: a. True

Detailed Solution: Dynamic user mobility restricts the ease with which rules can be placed for software defined wireless mobile networks. Refer Lecture 36@8:43

QUESTION 3:

Which among the following is a solution for mobility-aware flow rule placement in SDIoT?

      a.   Mobility-Flow
      b.   Mobile-Flow
      c.   Mobi-Flow
      d.   M-Flow

Correct Answer: c. Mobi-Flow

Detailed Answer: Mobi-Flow has been proposed to provide a solution for mobility-aware flow rule placement. Refer Lecture 36@13:09 onwards

---

QUESTION 4:

Cloud, Utility, Grid and _____ have been the major trends in computing

      a.   Clone
      b.   Cluster
      c.   Closure
      d.   Cloud

Correct Answer: b. Cluster

Detailed Answer: Cloud, Utility, Grid and Cluster computing are some of the major trends in computing. Please refer Lecture 37@5:43 onwards

QUESTION 5:

Cloud computing models allow different users to share the same physical resources?

a. True

b. False

Correct Answer: a. True

Detailed Solution: Cloud computing uses virtualization heavily and thus it allows different users to share the same underlying physical infrastructure.

QUESTION 6:

As per NIST Visual Model of Cloud Computing, 'Hybrid Cloud' model and PaaS model both fall in the same category.

a. True

b. False

Correct Answer: b. False

Detailed Solution: 'Hybrid Cloud' is an example of cloud deployment model while 'PaaS' is an example of cloud service model. Refer Lecture 37@13:28

QUESTION 7:

When you are accessing Google docs or Microsoft Word online for accessing the features of a document writing software from your browser without specifically installing them, which among the following cloud service models is the most appropriate one that you are using.

       a. SaaS

       b. PaaS

       c. IaaS

       d. DaaS

Correct Answer: a. SaaS

Detailed Solution: This is an example of SaaS, since you are accessing a word/document processing software as a client over the network. The actual software itself runs on some remote cloud server (Please refer Lecture 37@26:14 AND 38@13:16)

QUESTION 8:

An organization A wants to deploy a cloud infrastructure, whereby it wants to push majority of the data to a cloud whose servers can be situated anywhere within the globe, but it wants certain private data to be pushed only to cloud servers that are present on-premise and are accessible by only authenticated members of the organization. In this context which among the following deployment model should be used?

       a. Private Cloud

       b. Public Cloud

       c. Hybrid Cloud

       d. Any of these

Correct Answer: c. Hybrid Cloud

Detailed Solution: Hybrid cloud deployment model supports both the features of public and private cloud. Refer lecture 37, ppt No. 18.

QUESTION 9:

Cloud services and resources should be rapidly _____ in order to achieve their required performance

     a.   entrusted
     b.   elastic
     c.   enterprise
     d.   None of the given

Correct Answer: b. elastic

Detailed Answer: Rapid elasticity is one of the key requirements for cloud computing paradigms and models. Refer Lecture 37@20:54

QUESTION 10:

Suppose that a start-up wants to enter into online book delivery business. It wants to create the user interface and the application by itself, but it does not have any networking or storage facility, so it wants to adopt the cloud computing practice. In this respect, which among the following cloud service models is most suitable for the start-up.

     a.   Only SaaS
     b.   Neither PaaS nor IaaS
     c.   Both PaaS and IaaS can be adopted
     d.   Neither SaaS, PaaS or IaaS

Correct Answer: c. Both PaaS and IaaS can be adopted

Detailed Answer: Since both IaaS and PaaS provides infrastructure and storage support to clients, either of PaaS or IaaS can be employed. Refer Lecture 38@3:00, comparision of different models.

QUESTION 11:

Data security and client authentication is an issue in which of the following cloud service models?

        a. SaaS

        b. SaaS and PaaS

        c. IaaS

        d. All of them

Correct Answer: d. All of them

Detailed Solution: Security is a pertinent issue in all of the cloud service models, which includes SaaS, PaaS and IaaS. Refer to any standard discussion on challenges and issues on cloud computing and Lecture 39.

QUESTION 12:

Network, _____ and application level securities are the three aspects of cloud infrastructure securities.

        a. Client

        b. Web

        c. Host

        d. Wireless

Correct Answer: c. Host

Detailed Solution: Network, host and application level securities are the fundamental aspects of cloud infrastructure securities. Refer Lecture 39@16:42.

QUESTION 13:

When a new user logs into a cloud framework, the first thing that needs to be done is
_____.

a. User should be authenticated

b. User should immediately be granted all the resources

c. User should log off

d. User should be penalized

Correct Answer: a. User should be authenticated

Detailed Solution: User authentication is one of the primary security issue and any user which logs into the cloud framework must first be authenticated. Refer Lecture 39@26:53.

QUESTION 14:

Service Level Agreements (SLAs) are mutually agreed by the client (customer) and cloud service provider (CSP) at the beginning. With respect to SLAs, what are the views that SLAs provide?

a. Customer Point of View

b. CSP Point of View

c. Both Customer and CSP Point of View
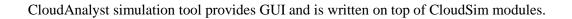
d. Neither Customer nor CSP Point of View

Correct Answer: c. Both Customer and CSP Point of View

Detailed Solution: SLAs provide both the customer point of view and the CSP point of view between the customer and the CSP. Refer Chapter 10 (Page 245) of "Introduction to IoT" by Sudip Misra, Anandarup Mukherjee, Arijit Roy, Cambridge University Press.

QUESTION 15:

CloudAnalyst simulation tool provides GUI and is written on top of CloudSim modules.

      a.   Yes

      b.   No

Correct Answer: a. Yes

Detailed Solution: CloudAnalyst is built on top of CloudSim and also provides a GUI. Refer Lecture 40@12:02 onwards.

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