BRAINWARE UNIVERSITY

Term End Examination 2023
Programme – B.Tech.(CSE)-2018/B.Tech.(CSE)-2019/B.Tech.(CSE)-2020
Course Name – Cloud Computing
Course Code - PEC-602A
(Semester VI)

Full Marks : 60   **Time : 2:30 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)   1 x 15=15

1. *Choose the correct alternative from the following :*

(i) Identify the most refined and restrictive cloud service model.

   a) CaaS   b) PaaS
   c) SaaS   d) IaaS

(ii) _____ refers to the location and management of the cloud's infrastructure. Choose the correct option.

   a) Service   b) Deployment
   c) Application   d) None of these

(iii) Cloud computing is a _____ system and it is necessarily unidirectional in nature. Choose the correct option.

   a) Stateless   b) Reliable
   c) Stateful   d) All of these

(iv) Interpret which approach is generally considered the easiest when beginning to adopt a cloud computing deployment model?

   a) Trying it out in a testing environment   b) Trying it out in a staging environment
   c) Trying it out at the beginning of a new   d) Trying it out directly in a producxtion
      project   environment

(v) Identify which of the following initiative tries to provide a way of measuring cloud computing services along dimension like cost ?

   a) CCE   b) SMI
   c) OCCI   d) All of these

(vi) Which of the following is the most widely used technique for abstraction?

   a) Load balancing   b) Load scheduling
   c) Load scaling   d) All of these

(vii) Choose the scaling mechanism that allows you to use a virtual system to run more virtual machines.

   a) Horizontal   b) Vertical

c) Out   d) All of these

(viii) Identify which of the following is essential concept related to Cloud?

    a) Reliability   b) Availability
    c) Abstraction   d) Productivity

(ix) State which of the following can be identified as cloud?

    a) Web application   b) Hadoop
    c) Intranet   d) All of these

(x) Define cloud computing as an abstraction based on the notion of pooling physical resources and presenting them as a _____ resource.

    a) Real   b) Cloud
    c) Virtual   d) None of these

(xi) Recall which of the following is owned by an organization selling cloud services?

    a) Public   b) Private
    c) Hybrid   d) Community

(xii) Identify applications that work with cloud computing that have low margins and usually low risk are called_____

    a) High touch   b) Moderate touch
    c) Low touch   d) None of these

(xiii) Identify which of these is not an antecedent of the cloud?

    a) Grid computing   b) Utility computing
    c) Desktop computing   d) Software as a service

(xiv) Select the three main cloud service models:

    a) Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Middleware as a Service (MaaS)   b) Platform as a Service (PaaS), Software as a Service (SaaS), and Application as a Service (AaaS)
    c) Infrastructure as a Service(IaaS), Platform as a Service(PaaS), and Software as a Service(SaaS)   d) None of these

(xv) Identify a characteristic of cloud computing

    a) Limited network access   b) On-demand self service
    c) Fixed hardware   d) All of these

Group-B
(Short Answer Type Questions)   3 x 5=15

2. Describe para-virtualization in brief.   (3)
3. Explain the different components of service-oriented architecture.   (3)
4. Discuss the requirements of virtualization platforms in implementing cloud?   (3)
5. Explain the concept of Hypervisor in cloud computing and their types.   (3)
6. Illustrate the advantages and disadvantages of SaaS Paradigm.   (3)
OR
    Analyze the evolution of SOA and how SOA is applied to Cloud Computing   (3)

Group-C
(Long Answer Type Questions)   5 x 6=30

7. State the components of cloud computing architecture in detail   (5)
8. Discuss the different types of virtualization in brief.   (5)
9. Determine some characteristics which are common in different cloud versions   (5)
10. Differentiate between hardware virtualization and server virtualization.   (5)
11. Evaluate the benefits of open SaaS.   (5)
12. Analyze the mechanisms used for secure data transmission in cloud ?   (5)
OR

Analyze the CIA model of cloud security. (5)

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