Hall Ticket Number:

Code No.: 22905 M

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
M.Tech. (CSE: CBCS) II-Semester Make Up Examinations, September-2017
Cloud Computing

Time: 3 hours   Max. Marks: 70

Note: Answer ALL questions in Part-A and any FIVE from Part-B

Part-A (10 × 2 = 20 Marks)

1. List the advantages of Utility computing.

2. Define Virtual Machine Monitor.

3. What is the role of Web3.0 in building cloud computing platform?

4. Give four examples of SaaS delivery model of cloud computing.

5. Is Virtualization a security threat for cloud computing platform?

6. What are the advantages of Virtualization?

7. Specify what are the top 2 security threats for cloud computing environment?

8. Considering the layered architecture of cloud computing, who (cloud user or provider) do you think the responsible for handling the security in public cloud? Justify your answer.

9. List any two cloud based SaaS applications for mobile devices.

10. What is the minimum requirement to access a cloud based application using a mobile device?

Part-B (5 X 10=50 Marks)

11. a) What is cloud-bursting? What are the deployment models cloud computing paradigm supports as on date? Explain each deployment model with proper example.   [7]
    b) Differentiate between Grid Computing and Cluster Computing   [3]

12. a) What is your understanding of "Elastic IP Address" in Amazon web services (AWS) cloud computing environment? How is it different from static/dynamic IP addressing concept of networking? Does it serve any specific purpose in cloud? Explain.   [7]
    b) What is Enterprise Computing? Which deployment model of cloud computing can also be called as Enterprise Cloud?   [3]

13. a) Define virtual machine. How it is different from a physical machine like laptop or desktop computer?   [4]
    b) Write short notes on the following: [6]
        i.   Full virtualization
        ii. Para virtualization
        iii. Hardware assisted virtualization

14. a) Define Interruption and Fabrication security attacks of computer network. Are these attacks possible in cloud computing platform?   [4]
    b) To minimize security threats in cloud computing, one need to minimize the following issues,
        i.   Loss of control
        ii. Lack of trust
        iii. Multi-tenancy
    Provide your views on minimizing security threats using above issues.   [6]

15. a) Discuss the standard protocols used for messaging in a Cloud environment [6]
    b) Define mobile platform virtualization and give examples of achieving it [4]

16. a) Do you agree or disagree with the following potential benefits of cloud computing for end
    users? Provide proper justification for your agreement. [4]
       i. Universal document access
       ii. Reduced software costs
       iii. Improved performance
       iv. Device independence
    b) Map the following [6]
       i. Type 1 hypervisor   1. Amazon EBS
       ii. Block store   2. VMware ESX/ESXi
       iii. Object store   3. Provisioning is rapid and scales out or in based on need
       iv. Elasticity   4. VirtualBox
       v. Type 2 hypervisor   5. Provisioning servers and networks with little human intervention
       vi. On-demand self-service   6. S3 (Simple storage service)

17. Write short notes on any **two** of the following:
    a) Secure SDLC [5]
    b) Preserving Privacy in Cloud [5]
    c) DMTF [5]

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