Hall Ticket Number:

Code No. : 22916

VASAVI COLLEGE OF ENGINEERING *(Autonomous)*, HYDERABAD
M.Tech. (CSE: CBCS) II-Semester Main Examinations, June-2018
Cloud Computing

Time: 3 hours   Max. Marks: 60

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

Part-A (10 × 2 = 20 Marks)

1. What are the advantages of grid computing?

2. Does cloud computing follow the green computing strategy? Justify.

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

4. Is Service Oriented Architecture (SOA) used in building cloud computing platform? Justify.

5. How encrypted federation differs from trusted federation?

6. Para-virtualization model can improve performance because of the ability to modify guest VMs. Do you agree with the statement? Justify your answer.

7. What are the challenges in providing security to cloud computing?

8. Identify the phases of secure software development life cycle.

9. When developing cloud applications for mobile devices what are difficulties faced by developers?

10. Write a scenario where an end user is benefited from the cloud.

Part-B (5 × 8 = 40 Marks)

11. a) Differentiate between Utility Computing and Cloud Computing.   [3]

    b) What are the key characteristics of cloud computing? Explain SPI model of cloud   [5]
    computing by NIST.

12. Cloud computing can play significant role for improving the efficiency and transparency of government operations. Cloud based e-Governance systems can improve delivery of services to citizens, business, government employees and agencies, etc. and also improve the participation of all the responsible parties in various government schemes and policy formation processes. Public services such as public transport reservations, vehicle registrations, issuing of driving licenses, income tax filing, electricity and water bill payments, birth or marriage registration, etc. can be facilitated through cloud based applications.

    a) Which type of cloud deployment model would you suggest for the above cloud based   [6]
    application hosting and why?

    b) Identify the benefits of using cloud based application for the above problem.   [2]

13. a) What is server consolidation? Give a real time example of server consolidation   [4]

    b) Describe full-virtualization in cloud computing with an example.   [4]

14. a) How security is incorporated in software as a service model explain with an example.   [4]

    b) Explain the standards for messaging in cloud computing.   [4]

15. a) How platform virtualization done in mobiles? Explain the two examples of virtualization   [4]
    software being used on smart phones.

    b) When deploying a private cloud what requirements should be considered?   [4]

16. a) Is multi-tenant architecture required for all service models (SaaS, PaaS & IaaS) of cloud   [3]
       computing? Identify the advantages and disadvantages of multi-tenant architecture.

    b) Describe the layered approach of multi-tenant SaaS model for cloud computing.   [5]

17. Answer any *two* of the following:

    a) Write different technologies are available as a Standards for security in Cloud   [4]
       computing? Explain.

    b) What is mobile OS? Explain different operating systems for smart phones.   [4]

    c) Compare Traditional S/W development with SaaS application development in cloud.   [4]

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