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VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
M.C.A. III Year I-Semester Main Examinations, December-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. Write the advantages of cloud based systems as compared to Grid based and web based systems?
2. Name the various service models in cloud? Specify the use case where each is more preferred model.
3. What are the applications of Google App Engine?
4. Distinguish between Demand Driven, Event Driven and popularity driven resource provisioning approaches?
5. List the advantages of OS level virtualization?
6. What are the products from VMware that are useful in enabling a Cloud System?
7. What is the importance of Federation in Cloud?
8. Define "Presence".
9. What are the various Zoho services?
10. Enlist the key features of Open Virtualization Format (OVF).

Part-B (5 × 10 = 50 Marks)

11. a) How can an organization decide if a Private, Public or Hybrid Cloud would be suitable to be adopted? [5]
 b) What is the impact of availability of Infrastructure-as-a service in modern software development? [5]
12. a) Name and explain Data-Center management issues. [5]
 b) Discuss about Amazon's web services. [5]
13. a) "Virtualization is the characteristic technology for Cloud implementation". Verify the validity of this statement [6]
 b) Write the important features of Microsoft Windows Azure. [4]
14. a) Why is 'Interoperability' an important issue in Cloud? What is meant by 'Presence-enabled' in Cloud. [6]
 b) Why is it challenging to provide security to entities on Cloud as compared to security on normal Distributed Systems? Give specific reason. [4]
15. a) Explain the activities and importance of Open Cloud Consortium. [5]
 b) Describe the use of Communication standards - HTTP, XMPP. [5]
16. a) List various challenges and risks of Cloud Computing. [4]
 b) What are Six open challenges in Cloud architecture development and their plausible solutions. [6]
17. Answer any *two* of the following:
 - a) Five levels of abstraction in virtualization [5]
 - b) Privacy and its relation to cloud. [5]
 - c) How are the "YouTube Player API" and "YouTube Data API" useful for developers to integrate YouTube's content and functionality into their applications? [5]