

(Following Paper ID and Roll No. to be filled in your Answer Book)

Paper ID : 214554

Roll No.

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MCA

(SEM. V) THEORY EXAMINATION, 2015-16

## CLOUD COMPUTING

[Time:3 hours]

[Total Marks:100]

## Section-A

**Note :** All Sections are compulsory.

1. Attempt **all** parts . All parts carry **equal** marks. Write answer of all part in short . (10x2=20)
  - (a) State the basic features/characteritics of Cloud Computing.
  - (b) Define the following terms: Grid Computing, Utility Computing.
  - (c) What do you mean by Para- virtualization?
  - (d) Define DBassS. Wrtie down the names of any five cloud databases.
  - (e) Differentiate between a public and a private cloud.

- (f) Describe the conditions when one should avoid the use of Clouds.
- (g) What does the term NoSQL mean? Where is its basic implementation?
- (h) Give the name of some popular software- as- a- Service vendors.
- (i) What does 3,4,5 signify in cloud computing?
- (j) What do you mean by Project management ? Write the names of any 4 Online Project Management Softwares.

### **Section-B**

Attempt **any five** questions from this section. (10x5=50)

- 2. What do you mean by Cloud Computing? Discuss any one of the cloud architectures with necessary details.  
[3+4+3]
- 3. Discuss the classification or taxonomy of virtualization at different levels with necessary illustrations. [4+6]
- 4. Write down at least four names of major players in cloud. Discuss any two in detail. [2+4+4]

5. What is a Hypervisor? Explain in detail with necessary illustrations. [3+4+3]
6. Explain Security as a Service in cloud. What are the security issues in cloud? Discuss the ways to enhance security in cloud. [3+3+4]
7. Discuss the various Standards for application developers with their features, pros and cons in cloud perspective. [2+4+4]
8. Discuss what a CRM is with an example based on cloud computing technologies. [4+6]
9. Write short notes on **any two**: [5+5]
  - a) Cloud Sim
  - b) Amazon web services
  - c) Monitoring as a Service
  - d) SOA

### Section-C

Attempt **any two** questions from this section. (15x2=30)

10. What is a virtual machine monitor? Discuss the properties of a virtual machine. Distinguish between Xen and hyper-V. [3+6+6]

11. What do you mean by a "Standard"? Why is it required?  
Discuss various standards for messaging in cloud.

[3+3+3+6]

12. Write short notes on **any three**.

[5×3=15]

- a) Groupware
- b) VMware
- c) DMTF
- d) Open Nebula

—x—