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MCA**(SEM III) THEORY EXAMINATION 2017-18****CLOUD COMPUTING****Time: 3Hours****Max. Marks: 100****Note:** Attempt all Sections. Assume missing data, if any.**SECTION-A**

1. Attempt **all** questions: 10 x2 = 20
- a) What is a Hypervisor?
 - b) What do you mean by a Standard?
 - c) What do you mean by cloud database?
 - d) What do you mean by NoSQL?
 - e) What do you mean by full virtualization?
 - f) What are the major challenges faced in cloud?
 - g) Differentiate between Grid Computing and Distributed computing.
 - h) What is web conferencing?
 - i) What is Hunt calendar?
 - j) What do you mean by Groupware?

SECTION-B

2. Attempt any **five** of the following: 10 x 5 = 50
- a) Describe the characteristics of cloud computing environments.
 - b) What do you understand by service oriented architecture (SOA)? How it support cloud computing?
 - c) Explain the services provided by Amazon infrastructure cloud from user perspective.
 - d) What do you understand by cloud analytics? Explain also describe how it works?
 - e) What is the difference between process virtual machines, host VMMs and native VMMs.
 - f) Explain the risk from multi-tenancy with respect to various cloud environments.
 - g) Describe the major cloud features of Google application engine.
 - h) Enlist and explain some of the common pitfalls that come with virtualizations.

SECTION-CAttempt any **two** of the following:- 15 x2 = 30

3. What do you mean by communication as service? Discuss any two service provider used in cloud computing in detail.
4. Explain the virtual machine monitor? Discuss the properties of a virtual machine. Distinguish between Xen and hyper-V.
5. Write the short notes on the following -
 - (i) IaaS
 - (ii) SaaS
 - (iii) PaaS
 - (iv) DaaS
 - (v) MaaS