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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-C

Attempt 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

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