Roll No. | | | | | | | | | | | |

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(CSE) (2011 Onwards Elective-III) (Sem.–7,8)

CLOUD COMPUTING

Subject Code : BTCS-912

Paper ID : [A2994]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Q1) Write briefly :

a) How does cloud computing differ from Internet?

b) What is multi-tenancy and its advantage?

c) What is on-demand self-service and resource pooling?

d) Differentiate full-virtualization and para-virtualization.

e) Write any two characteristics of private and public cloud.

f) What is the role of network manager in IaaS service layer?

g) Enlist the services that are provided by Amazon.

h) Why is hypervisor important? What is its role?

i) Mention the names of phases in SaaS maturity model.

j) Give any two examples of self-service.

SECTION-B

Q2) What is SaaS in cloud computing? Explain the different categories of SaaS.

Q3) Why is virtualization important? Describe the characteristics of server virtualization and application virtualization.

Q4) What is Service-Level Agreement (SLA)? Explain about the security controls classified in cloud computing.

Q5) Explain the cloud deployment models in detail. Also, outline their advantages and disadvantages while implementing an application.

Q6) What is a middleware? How does it help to achieve compatibility between different software involved in cloud computing?

SECTION-C

Q7) Discuss, in detail, identity management and access control that are needed for secure cloud computing.

Q8) Design the framework of common cloud management platform reference architecture and explain its components.

Q9) Explain the following :

a) Symmetric and Asymmetric Key Encryption

b) Windows Azure platform