

Total No. of Questions: 09

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

CLOUD COMPUTING

M Code: 71904

Subject Code: BTCS-912

Paper ID: [A2994]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS 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

1.
 - a) Differentiate Cloud Computing and Internet.
 - b) How do multi-tenancy advantageous to the success of cloud computing?
 - c) What is resource pooling and rapid elasticity?
 - d) Why is API necessary in cloud computing?
 - e) Write any two characteristics of public cloud and hybrid cloud.
 - f) What is the role of resource scheduler in IaaS service layer?
 - g) Enlist the services that are provided by IBM Smart Cloud.
 - h) What is SSL?
 - i) What is the selection criterion for private cloud deployment model?
 - j) Give any two examples of self-service.

SECTION B

2. Design the architecture of PaaS and SaaS in cloud computing? Also, explain the different categories of PaaS and SaaS with example.
3. What is virtualization in cloud computing? Outline the characteristics of server virtualization and application virtualization.
4. Discuss the following concepts in the context of cloud computing:
 - a) Billing and Metering Services
 - b) Tooling and automation
5. Draw the framework of common cloud management platform reference architecture and explain its components.
6. Write different types of internal security breaches in cloud computing. Also, explain the steps to reduce cloud security breaches.

SECTION C

7. Discuss, in detail, the cloud security reference model and explain how cloud security is integrated into the design of application.
8. Explain the cloud deployment models, in detail. Also, outline their benefits and limitations while implementing and application.
9. Explain the following:
 - a) Digital Signatures
 - b) Goggle Cloud Platform