

Dec.-22-0310

CS-704 (Cloud Computing)

B.Tech. 7th (CBCS)

Time : 3 Hours

Max. Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : This question paper carries five sections. Attempt any five questions selecting at least one question each from section A, B, C & D. Section E is compulsory.

SECTION - A

1. (a) What is cloud computing and how does it work? What are some of the most innovative cloud computing applications? (5)
(b) What is virtualization? Explain the characteristics and type of virtualization in Cloud Computing. (5)
2. List the five differences between public, private, hybrid, and community cloud computing environments. (10)

SECTION - B

3. What are the cloud deployment models? Explain the security concerns that are associated with various cloud deployment models. (10)
4. What are cloud security challenges? How is security provided to data at various stages in context of cloud? (10)

SECTION - C

5. What is IAM? Describe the challenges associated with IAM and the relevant IAM standards and protocols for cloud services. (10)

2

CS-704

6. What is cloud security management? Describe the various security management standards with regard to SaaS, PaaS, and IaaS. (10)

SECTION - D

7. What are the legal issues in cloud computing? Explain US laws and regulations in cloud computing. (10)
8. What is governance, risk, and compliance (GRC) in the cloud? Justify its existence and why organizations require GRC. (10)

SECTION - E (Compulsory Question)

9. (a) What is resource pooling and rapid elasticity?
(b) What is hypervisor storage virtualization?
(c) Explain SPI framework for cloud computing.
(d) List some driving factors towards cloud computing.
(e) What is cloud provisioning?
(f) What is multi-tenancy in cloud computing?
(g) What is Security as a Cloud?
(h) List the differences between Para virtualization and Fully Virtualization.
(i) What are the phases in data security life cycle?
(j) Write down the risks of storing data in a cloud. (10×2=20)